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ABSTRACT

Information from many different sources related to the use of computers in instruction, particularly computer assisted instruction (CAI), is provided in this bibliography: journal articles, books, articles from edited books, and technical reports or memos. Each of the 835 entries contains title, year and place of publication, often the number of pages, and the author's name. Additional information considered pertinent for the location of a given source is also included where appropriate, and those articles or papers which were referenced in abstracted form are identified. Included in each entry are the appropriate keywords which serve to index its contents. An index of entries by descriptors and an author index are also included. (SH)

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COMPUTER-ASSISTED INSTRUCTION

**A
SELECTED
BIBLIOGRAPHY**

**O. Dennis Barnes
Deborah B. Schrieber**

March 1972

**ASSOCIATION FOR EDUCATIONAL COMMUNICATIONS & TECHNOLOGY
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INTRODUCTION

AECT would like to thank O. Dennis Barnes, National Technical Institute for the Deaf, Rochester Institute of Technology, and the people who worked with him on this comprehensive bibliography for the opportunity to publish it. We feel that with the abundance of literature on the subject of computer-assisted instruction, there needs to be an easier way of looking at it all. This bibliography will help -- breaking out many interest areas in the CAI field and making the task of locating pertinent information simpler.

This bibliography is by no means complete, but the job it does is one that is needed. It provides a starting point on a study of CAI and can provide guidelines for future referencing.

AECT again thanks all the people who made this job possible.

Howard Hitchens Jr.
Executive Director

PREFACE

A bibliography is not an unusual commodity in the academic world. There are those which are in constant use and those which only gather dust. There are those which have been carefully produced and those which have been "thrown" together.

The authors of this bibliography do not know how often it will be used. We can only hope that those interested in locating information sources related to the use of the computer in instruction, CAI, will find it of frequent help and value.

We do know how this bibliography was produced. Much systematic effort was required. First, each document was obtained. Then, each was read in its entirety, and, thus, is keyworded by content and not necessarily by title. As a result, we have used 663 keywords to categorize and organize the 835 citations in this bibliography. Although this is an extensive bibliography, it is by no means exhaustive. Other bibliographic sources include ERIC and The Clearinghouse for Federal Scientific and Technical documents, which are not knowingly referenced here.

An effort such as this owes its success to many. We wish to again thank the many individuals who contributed documents to our effort. Their cooperation is greatly appreciated. Our thanks to Marie Vincent for her effort in developing the program for the keyword listing. Our thanks also to William Sullivan and Mary Hite for their cooperation in getting the bibliography typed. Finally, our special thanks to Dee Mergler, who found herself responsible for the agonizing and time-consuming task of typing this monstrous document.

O. Dennis Barnes
Deborah B. Schrieber
March 1972

Bibliographic Format Explanation

There are many different types of information sources cited in this bibliography. This was done so that the user would become acquainted with the wide variety of literature sources available on computer-assisted instruction.

Every effort has been made to provide the user of this bibliography with sufficient information within each citation to allow for reasonably easy location of each source. However, since there are many different bibliographic formats in use, the formats used in this bibliography are explained below in order to further clarify the type of source referred to in a particular citation.

Journal article

Author(s). Article title. Journal title, year of publication, volume number (issue number), pages of article.

When a volume number or issue number is not known, the month of publication is given in parentheses following the year.

Book

Author(s). Title. Place of publication: Publisher, year of publication.

Edited book

Author(s). (Ed[s].) Title. Place of publication: Publisher, year of publication.

Article in edited book

- Author(s) of article. Article title. In Author(s) (Ed[s].), Title. Place of publication: Publisher, year of publication. Pages of article.

Technical report or memo

Author(s). Title. Document classification and number, Issuing agency, place of issue, year of issue.

A specific article in a technical report or memo is cited similarly to the format used for an article in an edited book.

Paper

Author(s). Paper title. Organizational meeting at which it was presented, place of presentation, year.

If the article or paper cited was in an abstracted form, the usual citation format will be followed by (Abstract).

Other forms of citation used will generally follow one of the above formats. Additional information considered pertinent for the location of a given source will be found inserted into an appropriate place in the standard citation format for that type of source.

BIBLIOGRAPHIC CITATIONS

0001-0005

- 0001 Stolurrow, L. M. Implications of Current Research and Future Trends. Journal of Educational Research, 1962, 55(9), 519-27.
- programmed instruction; teaching machine; teacher; sequence; future
- 0002 Bushnell, D. D. Applications of Computer Technology to the Improvement of Learning. In D. D. Bushnell & D. W. Allen (Eds.), The Computer in American Education. New York: John Wiley & Sons, Inc., 1967. Pp. 59-76.
- simulation; games; disadvantaged; learning
- 0003 Abelson, P. H. Computer-assisted Instruction. Science, 1968, 162, 855.
- individualization; effectiveness; cost
- 0004 Abrahamson, S., Wolf, R. M., & Denson, J. S. A Computer-based Patient Simulator for Training Anesthesiologists. Educational Technology, 1969, 9(10), 55-59.
- simulation; medicine; anesthesiology
- 0005 Abramson, T., & Weiner, M. Evaluation of the New York City Computer Assisted Instruction Project in Elementary Arithmetic, Second Year 1969-70. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 63 (Abstract).
- arithmetic; achievement; New York City; evaluation; attitude; elementary grades

0006-0009

- 0006 Adair, C. H., Hansen, D. N., Rayner, Gail T., & Agarwal, A. Two Simulated Inquiry Environments: A Social Simulation Game and a CAI-based Information Retrieval System. Technical Memo 16, CAI Center, Florida State University, Tallahassee, 1970.
- social science; inquiry; games; simulation; attitude; training; information retrieval system; teacher education
- 0007 Scanland, F. W. An Investigation of the Relative Effectiveness of Two Methods of Instruction, Including Computer-assisted Instruction, as Techniques for Changing the Parental Attitudes of Negro Adults. Technical Report 13, CAI Center, Florida State University, Tallahassee, 1970.
- Negro; adults; attitude; achievement; lecture; rural; education; effectiveness
- 0008 Adair, J. B., & Small, Hazel C. A Systems Model of the Curriculum Development Process Appropriate for the Development of PI and CAI Curriculum Materials. Proceedings, Association for the Development of Instructional Systems conference, Brooklyn College, Brooklyn, N. Y., March, 1970, 16-17, (mimeo). (Abstract).
- curriculum development; adult education; systems model
- 0009 Adair, J. B., & Small, Hazel C. The Use of CAI for the Identification of Educational Deficiencies, Placement and Instruction of Adults in an IPI-Math Adult Basic Education Program. Proceedings, Association for the Development of Instructional Systems conference, Brooklyn College, Brooklyn, N. Y., March, 1970, 16, (mimeo). (Abstract).
- math; adult education; diagnostic tool; placement

0010-0014

- 0010 Adams, E. N. Reflections on the Design of a CAI Operating System. Proceedings of AFIPS Spring Joint Computer Conference, 1967, 30, 419-24.
system design; storage; language; operating system
- 0011 Adams, E. N. Field Evaluation of the German CAI Lab. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 205-08.
German; achievement; evaluation
- 0012 Adams, E. N. Technical Considerations in the Design of a CAI Computer System. In J. Annett & J. Duke (Eds.), Proceedings, Seminar on Computer Based Learning Systems, University of Leeds, Sept. 8-12, 1969. Pp. 10-17.
hardware; terminal; system design; instruction; language
- 0013 Friend, J. E. Computer-assisted Instruction for the Deaf at Stanford University. Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1970.
math; high school; deaf; language arts; drill-and-practice; strand; tutorial; Stanford University; elementary grades
- 0014 Adams, E. N., Morrison, H. W., & Reddy, J. M. Conversation with a Computer as a Technique of Language Instruction. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 173-90.
foreign language; German; curriculum development; audio; strategy--instructional

0015-0019

- 0015 Alcorn, B. K. Time-sharing in Higher Education.
Paper presented at AIDS Convention, Portland,
Oregon, May, 1969. (Abstract).

time-sharing; higher education
- 0016 Alpert, D., & Bitzer, D. L. Advances in Computer-
based Education. Science, 1970, 167, 1582-90.

PLATO; cost; drill-and-practice; tutorial;
inquiry; evaluation; utilization; hardware;
software; strategy--instructional; applica-
tions; future; terminal
- 0017 Armstrong, D. T. The Computer 'Package' is an
Educational Tool. Business Education World, 1966,
45(5), 20-21.

business education; high school
- 0018 Atkinson, R. C. Computerized Instruction and the
Learning Process. Address presented to Division
of Educational Psychology, American Psychological
Association, Washington, D. C., 1967.

Stanford University; reading; language; disadvan-
taged; achievement; learning; elementary grades;
curriculum; optimization
- 0019 Atkinson R. C. Computerized Instruction and the
Learning Process. American Psychologist, 1968,
23(4), 225-39.

reading; math; Stanford University; levels of
CAI; drill-and-practice; dialogue system;
tutorial; branching; hardware; games; audio;
macro; Coursewriter II; learning; elementary
grades; IBM; optimization

0020-C024

- 0020 Atkinson, R. C. Computer-assisted Learning in Action. Proceedings of the National Academy of Science, 1969, 63(3), 588-94.
- Stanford University; tutorial; drill-and-practice; effectiveness; learning; individualization; optimization
- 0021 Atkinson, R. C. Computerized Instruction and the Learning Process. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 143-65.
- Stanford University; reading; language; disadvantaged; achievement; learning; curriculum; elementary grades; optimization
- 0022 Atkinson, R. C., Fletcher, J. D., Chetin, H. C., & Stauffer, C. M. Instruction in Initial Reading under Computer Control: The Stanford Project. Technical Report 158, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1970.
- Stanford University; reading; audio; elementary grades; strategy--instructional; curriculum
- 0023 Atkinson, R. C., & Paulson, J. A. An Approach to the Psychology of Instruction. Technical Report 157, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1970.
- learning theory; instruction theory; learning model; cost; optimization
- 0024 Atkinson, R. C., & Wilson, H. A. Computer-assisted Instruction. Science, 1968, 162, 73-77.
- history--CAI; programmed instruction; Stanford University; reading; math; drill-and-practice; tutorial; simulation; games; hardware; software; cost; learning; individualization; obstacles; optimization

0025-0030

- 0025 Atkinson, R. C., & Wilson, H. A. (Eds.) Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969.
applications; hardware; language; cost; overview
- 0026 Atkinson, R. C., & Wilson, H. A. Computer-assisted Instruction. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 3-13.
Stanford University; hardware; reading; math; drill-and-practice; tutorial; cost; obstacles; elementary grades
- 0027 Audio/visual Unit Integrates Slides, Tapes into Ed System. IBM News, 1970, 7(8), 1. (San Jose issue)
IBM/360; audiovisual
- 0028 Avner, R. A., & Tenczar, P. The TUTOR Manual. Report X-4, Computer-based Education Research Laboratory, University of Illinois, Urbana, 1969.
PLATO; language; TUTOR; cost; effectiveness; simulation; drill; individualization; advantages; terminal; author; learner; debugging; student records
- 0029 Bacon, G. C. Roles and Directions in CAI. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 127-33.
evaluation; problem solving; industry
- 0030 Baker, F. B. Use of Computers in Educational Research. Review of Educational Research, 1963, 33(5), 566-78.
CLASS; PLATO II; research

0031-0035

- 0031 Balabanian, N. The Educational Engineering Called Programmed Instruction. IEEE Transactions on Education, 1966, E-9(2), 49-57.
programmed instruction
- 0032 Barnes, O. D. A Computer Assisted Instruction Annotated Bibliography. Phi Delta Kappan, 1968 (Sept.), 49.
bibliography
- 0033 Barnes, O. D. The Effect of Learner Controlled Computer Assisted Instruction on Performance in Multiplication Skills. Unpublished doctoral dissertation, University of Southern California, Los Angeles, 1970.
learner-controlled instruction; instructor-controlled instruction; programmed instruction; IBM/1500; performance; literature review; arithmetic; elementary grades
- 0034 Baruch, Rhoda. Computer-assisted Systems in Guidance and Education: Report on an Invitational Conference on the Implications for the Practice and Education of Counselors. Graduate School of Education, Harvard University, Cambridge, Mass., 1969.
guidance; counseling; cost
- 0035 Deihl, N. C. Development and Evaluation of Computer-assisted Instruction in Instrumental Music. Final Report. Report R-24, Computer-assisted Instruction Laboratory, Pennsylvania State University, University Park, 1969.
clarinet; drill; IBM/1500; Coursewriter; audio; language laboratory; behavioral objectives; strategy--instructional; branching; evaluation; curriculum development; music

0036-0041

- 0036 Beck, Isabel H., & Monroe, B. Some Dimensions of Simulation. Educational Technology, 1969, 9(10), 45-49.
simulation; games; cost
- 0037 Becker, J. W. Discussion--Educational Technology: New Myths and Old Realities. Harvard Educational Review, 1968, 38(4), 747-51.
individualization
- 0038 Behrens, T. R., Clack, L., & Alprin, Linda. Mathematics Curriculum Supported by Computer Assisted Instruction. American Annals of the Deaf, 1969, 114(5), 889-92.
deaf; math; drill-and-practice; elementary grades; attitude
- 0039 Belanger, M. Discussion--Educational Technology: New Myths and Old Realities. Harvard Educational Review, 1968, 38(4), 718-24.
education
- 0040 Belgard, Maria R., & Min, L. Y. Optimizing the Teaching-Learning Process through a Linear Programming Model--An Operations Research Approach. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 89 (Abstract).
programming; operations research approach; optimization; learning
- 0041 Bell, N. T., & Moon, R. D. Teacher Controlled Computer Assisted Instruction. Michigan State University, East Lansing, (1969), (mimeo).
hardware; cost; software; instructor-controlled instruction; tutorial; demonstration; curriculum--programs

0042-0047

- 0042 Bennik, F. D., Schwarcz, R. M., & Silberman, H. F.
Linguistic and Tutorial Modeling for Natural
Language CAI. SP-3266, System Development Corp.,
Santa Monica, Calif., 1968.

natural language; tutorial; decision model;
linguistic model
- 0043 Bennik, F. D., Schwarcz, R. M., & Silberman, H. F.
Linguistic and Tutorial Modeling for Natural
Language CAI. Paper presented at American Educa-
tional Research Association convention, Los Angeles,
1969.

natural language; tutorial; decision model;
linguistic model
- 0044 Bennik, F. D., Schwarcz, R. M., & Silberman, H. F.
Linguistic and Tutorial Modeling for Natural
Language CAI. SP-(L)-3266/001/00, System Develop-
ment Corp., Santa Monica, Calif., 1968.

flowchart; natural language; linguistic model;
tutorial
- 0045 Teacher Sees Need to Plan for Computers. Los
Angeles Times, Nov. 28, 1968, Pt. IV, p. 14.

curriculum; vocational education; teacher
- 0046 Bennis, W. G. Discussion--Educational Technology:
New Myths and Old Realities. Harvard Educational
Review, 1968, 38(4), 735-39.

education; innovation
- 0047 Berry, P. Student Text: APL/1130 Primer. (2nd
Ed.) IBM Corp., White Plains, N. Y., 1969.

IBM/1130; APL/1130

0048-0052

- 0048 Bitzer, D. L. An Economically Viable Large Scale Computer-based Education System. Paper presented at Conference on Computer Assisted Instruction, Pennsylvania State University, University Park, 1968.
- hardware; software; cost; plasma display panel
- 0049 Resta, P. E., Strandberg, J., & Hirsch, E. Strategies for Development of Computer-based Instructional Management Systems. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 1 (Abstract).
- management system--instructional; cost
- 0050 McManus, J. F. Alternate Hardware Configurations for an Instructional Management System. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 1 (Abstract).
- hardware; management system--instructional
- 0051 Bitzer, D. L. Economically Viable Large-scale Computer-based System. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 17-23.
- hardware; cost; plasma display panel
- 0052 Kieren, T. E., & Hatfield, L. L. Computer-assisted Problem Solving in School Mathematics. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 86 (Abstract).
- problem solving; ability; math; junior high

0053-0057

- 0053 Bitzer, D., Braunfeld, P., & Lichtenberger, W. PLATO: An Automatic Teaching Device. IRE Transactions on Education, 1961, E-4(4), 157-61.
- PLATO; effectiveness; high school; math; hardware; terminal
- 0054 Klein, P. A. A Framework for Examining Modes of Representation as They Apply to Mathematics Instruction. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 86 (Abstract).
- math; presentation mode
- 0055 Jerman, M. Drill and Practice in Practice: A Look at the Results to Date. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 86 (Abstract).
- individualization; achievement; motivation; drill-and-practice; math; tutorial; response
- 0056 Roid, G. H. Covariates of Learning in Computer-assisted Instruction. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 63 (Abstract).
- programmed instruction; attitude; psychology; college
- 0057 Bitzer, D. L., & Slottow, H. G. Principles and Applications of the Plasma Display Panel. Paper prepared for presentation at OAR Research Applications Conference, Office of Aerospace Research, Arlington, Va., March, 1968.
- terminal; plasma display panel

0058-0062

- 0058 O'Neal, L. R. Simulated Laboratory Training for Cost Avoidance. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 63 (Abstract).
simulation; transfer; training; typewriter; laboratory
- 0059 Strandberg, J. Analysis and Development of Instructional Decision Rules for Computer-based Instructional Management Systems. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 63 (Abstract).
management system--instructional; decision rules
- 0060 Bitzer, Maryann Self-directed Inquiry in Clinical Nursing Instruction by Means of the PLATO Simulated Laboratory. Report R-184, Coordinated Science Laboratory, University of Illinois, Urbana, 1963.
nursing education; inquiry, PLATO; laboratory; simulation; strategy--instructional
- 0061 Olivier, W. B. Learner and Program-controlled Sequences of Computer-assisted Instruction. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 63 (Abstract).
task analysis; sequence; college; science; program-controlled instruction; ability; learner-controlled instruction
- 0062 James, T. G., & O'Neil, H. F., Jr. Effects of Sex and Stress on State Anxiety and Performance in Computer-assisted Learning. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 59 (Abstract).
anxiety; sex; performance; math; feedback

0063-0066

- 0063 Leherissey, Barbara L., O'Neil, H. F., Jr., & Hansen, D. N. Effect of Anxiety, Response Mode, and Subject Matter Familiarity on Achievement in Computer-assisted Learning. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 59 (Abstract).
- anxiety; response; reading; achievement; heart disease; familiarity
- 0064 Gallagher, P., O'Neil, H. F., Jr., & Dick, W. Effects of Trait and State Anxiety on Performance in a Computer-managed Instruction Course. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 59 (Abstract).
- anxiety; programming; performance; evaluation; strategy--instructional
- 0065 Redfield, D. B., Conlon, Betsy A., & Teates, T. G. CAI Word Rate--Student Ability as Predictors of Achievement. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 52 (Abstract).
- ability; time; achievement; latency; reading; science
- 0066 Lippert, H. T., & Harris, E. V. APL: An Alternative to the Multi-language Environment for Education. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 44 (Abstract).
- APL; instruction; computer science; data processing; accounting; student records; computer systems; education

0067-0071

- 0067 Holland, J. G. Use of a Computer for Programmed Instruction Presentation of a Pre-school Classification Program. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 36 (Abstract).
- evaluation; reinforcement; programmed instruction; pre-school
- 0068 Forlano, G., Horowitz, G. R., & Beech, R. P. The Effects of Drill-Practice Mode of Computer Assisted Instruction in Elementary Arithmetic on School Learning and School Attitudes. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 36 (Abstract).
- Dial-A-Drill; arithmetic; drill-and-practice; achievement; attitude; elementary grades; disadvantaged
- 0069 Gorth, W. P. Monitoring and Managing Student Outcomes Using New Computer Technology. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 29 (Abstract).
- testing; decision rules; management--instructional; individualization; curriculum; outcomes
- 0070 Blum, R. Two Monographs. Introductory Computer-based Mechanics: A One Week Sample Course and Computer-based Physics: An Anthology. American Journal of Physics, 1970, 38(5), 658.
- physics; college; mechanics
- 0071 Blum, R., & Bork, A. M. Computers in the Physics Curriculum. American Journal of Physics, 1970, 38(8), 959-70.
- physics; graphic; terminal; tutorial; simulation; calculation; installations

0072-0077

- 0072 Bork, A. M. A Physics Independent Study Course with Computer. American Journal of Physics, 1963, 31(5), 364-68.
physics; college; calculation
- 0073 Campbell, V. N., & Chapman, Madalynne A. Learner Control Vs. Program Control of Instruction. Psychology in the Schools, 1967, 7(2), 121-30.
individualization; motivation; problem solving; geography; learner-controlled instruction; instructor-controlled instruction; evaluation
- 0074 Dawson, E. H., Jr. Just Another Tool? CAI? Audiovisual Instruction, 1970, 15(6), 92-93.
teletype; interface; tutorial; testing; drill; simulation; attitude; curriculum development
- 0075 Hannan, T. Computer Assisted Instruction--State of the Art Summary. Audiovisual Instruction, 1970, 15(6), 93-94.
INDICOM; individualization; math; English; reading; spelling; audio; drill-and-practice; attitude
- 0076 Bork, A. M. Computers and the Nonscience Major. American Journal of Physics, 1966, 34(10), 926-30.
physics; college; calculation
- 0077 Bowen, E. The Computer as a Tutor. Life, 1967, 62(4), 68-70+.
Stanford University; math; reading; cost; simulation; teacher; overview; industry; individualization

0078-0082

0078 BR-2210. Bunker-Ramo Corp., Stamford, Conn., 1970.
(Brochure).

hardware; terminal; CRT

0079 Bratten, J. E. Educational Applications of In-
formation Management Systems. Paper presented
at the Special Libraries Association conference
session on Mechanized Information Systems in
Educational Areas, Los Angeles, 1968.

teacher; diagnostic tool; reading; management
system--information; individualization; elemen-
tary grades

0080 Cooper, J. G. Effects of Computer Based Instruc-
tion upon Achievement in Elementary Statistics.
Paper presented at American Educational Research
Association meeting, Los Angeles, 1969.

statistics; cost; graduate school; achievement;
instruction

0081 Goodwin, Jean. Computer Will Teach Underprivileged
Adults. The News and Observer, Sept. 8, 1968, Pt.
IV, p. 9.

reading; computation; consumer education; cur-
riculum development; adult education; under-
privileged; adults

0082 Rips, M. Computer Russian Taught at Stanford
Successfully. Daily Bruin, Feb. 28, 1968, 73(38),
p. 1. University of Southern California, Los
Angeles.

individualization; learning; pronunciation;
Stanford University; Russian; college

0083-0087

- 0083 Braunfeld, P. G. Problems and Prospects of Teaching with a Computer. Journal of Educational Psychology, 1964, 55(4), 201-11.
- PLATO; strategy--instructional; time; achievement; student records; future; obstacles
- 0084 Charp, Sylvia, & Sandstrom, A. Computer-assisted Instruction in Reading. Scholastic Teacher, 1968, 8(12), 13; 16.
- GROW; individualization; objectives; tutorial; teacher; author; reading; junior high
- 0085 Briggs, L. J., & Angell, D. Programmed Instruction in Science and Mathematics. Review of Educational Research, 1964, 34(3), 354-73.
- programmed instruction; science; math; response; branching; sequence
- 0086 Briggs, L. J., Goldbeck, R. A., Campbell, V. N., & Nichols, D. G. Experimental Results Regarding Form of Response, Size of Step, and Individual Differences in Automated Programs. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 86-98.
- response; feedback; step size; individualization
- 0087 Goodman, W. Computer-based Economics Games. Games in the Classroom: A Scholastic Teacher Report, 1967, 6. Articles reprinted from Scholastic Teacher, Nov. 9, 1967.
- Sumerian Game; Sierra Leone Development Project; Free Enterprise Game; Consumer Game; time; individualization; games; economics; elementary grades

0088-0093

- 0088 Braunfeld, P. G., & Fosdick, L. D. The Use of an Automatic Computer System in Teaching. IRE Transactions on Education, 1962, E-5(3&4), 156-67.
PLATO; terminal; curriculum; programming--
course; collegu; achievement; strategy--
instructional
- 0089 Speedie, S. M. A Summary of Three Recent Reviews on CAI. Purdue University, LaFayette, Indiana, (mimeo).
limitations; information sources; hardware;
projects; research; overview; research & devel-
opment; literature review
- 0090 British Team Views CAI in USA. SIGCAI Interface, 1970, 4(1), 2-5.
literature review; criticism
- 0091 Silberman, H. F. The Digital Computer in Educa-
tion. Phi Delta Kappan, 1962, 43, 345-47.
calculation; stimulation; simulation; individu-
alization; teacher education; curriculum: educa-
tion; curriculum development; innovation
- 0092 Brown, D., Lederman, Janet, Kennedy, Adrienne,
Mitchell, Audrey, & Wisler, D. A Pilot Experiment
in Educational Technology Using Computers in the
Affective Domain. Internal Research & Development
Project 072531-017, Science Research Institute,
Menlo Park, Calif., 1969.
strategy--instructional; inquiry; science; art;
math; music; affective domain; concept teaching;
curriculum; elementary grades; teacher
- 0093 Lopez, G. Algebra and Physics Taught by Teletype.
CTA Journal, 1968, 64(2), 10-12.
time-sharing; teletypewriter; achievement; computa-
tion; problem solving; curriculum development; BASIC;
learning by discovery; algebra; high school; physics

0094-0099

- 0094 Yett, F. A. Computer-assisted Learning. CTA Journal, 1968, 64(2), 13-14.
FORTRAN; self-instruction; programming; problem solving; INQUIR: math
- 0095 Goodlad, J. I. Humanize the Means of Instruction. CTA Journal, 1968, 64(2), 22-23.
interaction; multi-media; teacher; humanization; hardware
- 0096 Brown, J. R. Unlocking the Computer's Potential in the Kansas City School District. January 2, 1970 (mimeo).
hardware; Kansas City; strategy--instructional; ability; effectiveness; attitude; teacher; cost; curriculum--programs; individualization
- 0097 A Survey of On-line Multiple User Computer Systems. Time-sharing System Scorecard, Computer Research Corporation, Newton, Massachusetts, 1967, 5, 1-5.
time-sharing; installations; language; terminal
- 0098 Miller, R. T. Computer-assisted Instruction. IBM Research Reports, 1966, 2(1). Thomas J. Watson Research Center, Yorktown Heights, N. Y.
learning theory; teaching machine; branching; programmed instruction; response; student records; Coursewriter; author; IBM; achievement; programming; testing
- 0099 Brudner, H. J. Computer-managed Instruction. Science, 1968, 162, 970-76.
computer-managed instruction; cost; multi-media; obstacles; individualization; learning; engineering--behavioral

0100-0104

- 0100 Atkinson, R. C., & Hansen, D. N. Computer-assisted Instruction in Initial Reading: The Stanford Project. Reading Research Quarterly, 1966, 2(1), 5-25.
- reading; ability; feasibility; curriculum; student records; audio; film; input; curriculum development; programmer--instructional; branching; learning; Stanford University; elementary grades; individualization; hardware; optimization
- 0101 Brudner, H. J. Computer-managed Instruction. Educational Media, 1969, 1(2), 25-28+.
- computer-managed instruction; learning; Individually Prescribed Instruction; teacher; multi-media; PLAN; individualization; engineering--behavioral
- 0102 Brudner, H. J. Computer-managed Instruction--Conclusion. Educational Media, 1969, 1(3), 16-17.
- computer-managed instruction; teacher; obstacles; individualization
- 0103 Bushnell, D. D. The Role of the Computer in Future Instructional Systems. (TDP Monograph 2). AV Communication Review, 1963, 11(2), 1-70.
- input; output; individualization; self-instruction; branching; PLATO; vocabulary; drill; MENTOR; CLASS; interaction; simulation; training; teacher education; film; student records; multi-media; cost; future
- 0104 Bryan, G. L. Computers and Education. Computers and Automation, 1969, 18(3), 16-19.
- overview; levels of CAI; problem solving; games; simulation; learning; branching; applications

0105-0109

- 0105 Bunderson, C. V., & Dunham, J. L. The University of Texas Computer-assisted Instruction Laboratory 1967-68. Austin, 1968.
hardware; overview; math; college; English; chemistry; simulation; educational administration; teacher education; University of Texas; curriculum--programs
- 0106 Bushnell, D. D., & Cogswell, J. F. A Computer-based Laboratory for Automation in School Systems. AV Communication Review, 1961, 9(4), 173-85.
educational technology; systems approach; simulation; training; CLASS; film; teacher; learner; individualization; instruction--group
- 0107 Reflect. The Superintendent's Bulletin, Montgomery County Public Schools, Rockville, Maryland, Number 15, December 2, 1968.
simulation; individualization; REFLECT; definition; curriculum; research; effectiveness; learning; testing; personnel; diagnostic tool
- 0108 Bushnell, D. D. Computer-based Teaching Machines. Journal of Educational Research, 1962, 55(9), 528-31.
branching; teaching machine; literature review
- 0109 The Technomics 6700 Computer-assisted Instructional System. Technomics Inc., Santa Monica, Calif., 1967.
student records; flexibility; media; DIALOG; natural language; video; audio; Technomics 6700; hardware; terminal

0110-0114

- 0110 Hoffman, R. B., & Seagle, J. P. A Problem Oriented Computer-based Instructional Procedure. Working Paper Series No. 42, School of Management, State University of New York, Buffalo, 1969.
- programmed instruction; college; problem generation; teacher; individualization; calculation; cost; strategy--instructional; learner
- 0111 Bushnell, D. D. Computer-mediated Instruction--A Survey of New Developments. Computers & Automation, 1965, 14(3), 18-23.
- computer-mediated instruction; simulation; branching; student records; math; high school; college; individualization
- 0112 Bushnell, D. D., & Allen, D. W. (Eds.) The Computer in American Education. New York: John Wiley & Sons, Inc., 1967.
- bibliography; applications; individualization
- 0113 Quackenbush, J. How Effective Are the New Auto-instructional Materials and Devices? IRE Transactions on Education, 1961, E-4(4), 144-51.
- effectiveness; elementary grades; high school; college; teaching machine; literature review
- 0114 Finn, J. D. Automation and Education: III. Technology and the Instructional Process. AV Communication Review, 1960, 8(4), 5-26.
- instructional technology; administration; testing; instruction; teaching machine; individualization

0115-0119

- 0115 Ely, D. P. The Most Important Number is One. The J. Richard Street Lecture for the Centennial Year, Division of the Summer Sessions, Syracuse University, Syracuse, N. Y., 1970.
instructional technology; media; learner-controlled instruction; strategy--instructional; individualization; instructor-controlled instruction
- 0116 Computers Find School Is Tough. Business Week, 1967, 1974, 106-08.
individualization; drill-and-practice; talking typewriter; reading; tutorial; software; cost; obstacles
- 0117 Teletypewriters Link High School Classes to Computers. Teletype Corporation, Skokie, Illinois, SB10M867, 1967.
teletypewriter; algebra; physics; high school; computation; time-sharing; program; learning by discovery
- 0118 Computer-based Instructional Systems. RCA Instructional Systems, Palo Alto, Calif., IS-707.
drill-and-practice; individualization; curriculum; student records; elementary grades; hardware
- 0119 Another Tool for Educators from RCA. RCA Instructional Systems, Palo Alto, Calif.
ability; terminal; drill-and-practice; teacher; student records; RCA Instructional 70 System; RCA Instructional 71 System; individualization

0120-0125

- 0120 Suppes, P. The Computer and Excellence. Saturday Review, 1967, 50(2), 46-50.
curriculum; individualization; drill-and-practice; concept blocks; difficulty level; arithmetic; cost
- 0121 Burns, J. L. Our Era of Opportunity. Saturday Review, 1967, 50(2), 38-39.
educational technology; teacher; cost
- 0122 Springer, C. H. Techniques and Costs: II. The Systems Approach. Saturday Review, 1967, 50(2), 56-58.
systems approach; administrative use; research; instruction; teacher; tutorial; cost
- 0123 Suppes, P. Plug-in Instruction. Saturday Review, 1966, 49(30), 25+29-30.
individualization; student records; light pen; terminal; time-sharing; drill-and-practice; tutorial; dialogue system; natural language; teacher; hardware; curriculum
- 0124 Bushnell, D. D. For Each Student a Teacher. Saturday Review, 1966, 49(30), 31.
learning by discovery; simulation; games; learner-controlled instruction; programming
- 0125 Computers in the Classroom. News Front, 1968 (Feb.), 35-39.
arithmetic; spelling; reading; New York City; RCA; time-sharing; branching; stimulus; cost; curriculum development; reliability; individualization; software; IBM; tutorial; drill-and-practice; dialogue system; teacher; elementary grades

0126-0131

- 0126 Maas, J. A. Something New in the Little Red School House. New York Sunday News, May 18, 1969, 29-32.
New York City; drill
- 0127 Falkoff, A. APL/360 History. In J. A. Higgins, (Ed.), Proceedings of the APL Users Conference, State University of New York, Binghamton, 1969. Pp. 8-15.
APL; language; implementation
- 0128 Mueller, A. University Applications. In J. A. Higgins (Ed.), Proceedings of the APL Users Conference, State University of New York, Binghamton, 1969. Pp. 16-20.
APL; time-sharing; simulation; plotting; learning by discovery; college; attitude; genetics
- 0129 Searle, C. University Applications. In J. A. Higgins (Ed.), Proceedings of the APL Users Conference, State University of New York, Binghamton, 1969. Pp. 20-22.
APL; transistor circuit design; calculation; college; debugging; applications
- 0130 Schurdak, J. CAI in APL. In J. A. Higgins (Ed.), Proceedings of the APL Users Conference, State University of New York, Binghamton, 1969. Pp. 25-27.
math; tutorial; APL; problem solving; Course-writer; simulation; drill-and-practice
- 0131 Horvath, R. CAI in APL. In J. A. Higgins (Ed.), Proceedings of the APL Users Conference, State University of New York, Binghamton, 1969. Pp. 27-28.
APL; language

0132-0137

- 0132 Stannard, C. CAI in APL. In J. A. Higgins (Ed.), Proceedings of the APL Users Conference, State University of New York, Binghamton, 1969. Pp. 28-30.
- APL; simulation; college; physics; laboratory; discovery
- 0133 Higgins, J. A. (Ed.) Proceedings of the APL Users Conference, State University of New York, Binghamton, 1969.
- APL; implementation; future; limitations; language
- 0134 Macauley, T. CAL/APL--Computer Assisted Learning/ A Programming Language: Author's Manual. Orange Coast Junior College District, Costa Mesa, Calif., 1969.
- author; language; computation; APL
- 0135 McConnell, J. S. Reaction Paper. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 118-24.
- author-controlled instruction; tutorial; language; applications; instruction
- 0136 McCracken, D. D. Whither APL? Datamation, 1970, 16(11), 53-57.
- language; APL
- 0137 McKenney, J. W. The Computer and the Curriculum. CTA Journal, 1968, 64(2), 5-9.
- industry; research & development; cost; personnel; software; curriculum

0138-0142

- 0138 IBM 1500 System Summary. Form Y26-5610-2, IBM Corp., Systems Development Division, Product Publications, Dept. G24, San Jose, Calif., 1967.
- individualization; student records; IBM/1500; language; Coursewriter II; terminal; image projector; audio; input/output; user; proctor; author; learner; hardware
- 0139 Spielberger, C. D., O'Neil, H. F., Jr., & Hansen, D. N. Anxiety, Drive Theory, and Computer-assisted Learning. Technical Report 14, CAI Center, Florida State University, Tallahassee, 1970.
- anxiety; individualization; learning; programmed instruction; CAI systems; science; college; math; feedback; stress; physics; evaluation; junior high; attitude; difficulty level
- 0140 McLaren, P. Planning & Managing the R & D Programme. In J. Annett & J. Duke (Eds.), Proceedings, Seminar on Computer Based Learning Systems, University of Leeds, Sept. 8-12, 1969. Pp. 81-93.
- research & development; criticism
- 0141 Mager, R. F. A Method for Preparing Auto-instructional Programs. IRE Transactions on Education, 1961, E-4(4), 151-57.
- programming; objectives; strategy--instructional
- 0142 Meredith, J. C. Machine as Tutor. Educational Technology, 1969, 9(9), 9-16.
- tutorial; dialogue system; subject cataloguing; curriculum development; answer-scanning

0143-0148

- 0143 Helvey, T. C. Cybernetic Pedagogy. Educational Technology, 1969, 9(9), 17-22.
pedagogy; teacher
- 0144 Ehlers, W. H. Computer Assisted Instruction in Social Work. Educational Technology, 1969, 9(9), 42-44.
social work; sociology; psychology; child development
- 0145 Hill, R. H., & Furst, Norma. Teacher Behavior in CAI Classrooms. Educational Technology, 1969, 9(9), 60-62.
teacher; behavior
- 0146 Blauberman, M. H. Computers in Education: An RCA Viewpoint. Educational Technology, 1969, 9(9), 63-66.
administration; program; drill-and-practice; RCA Instructional 70 system; cost; effectiveness
- 0147 Harless, W. G., Parker, H. J., Lucas, Nancy C., & Nunnery, A. W. The Total Time Hypothesis and Computer Assisted Instruction. Educational Technology, 1969, 9(9), 86-90.
total time hypothesis; exposure time; exposures; pediatrics; medicine
- 0148 Coulson, J. E., Estavan, D. P., Melaragno, R. J., & Silbermann, H. F. Effects of Branching in a Computer Controlled Auto-instructional Device. TM-617, System Development Corporation, Santa Monica, Calif., 1961.
branching; evaluation; time; aptitude; logic; high school; curriculum

0149-0153

- 0149 Bratten, J. E. Educational Applications of Information Management Systems. SP-3077/000/01, System Development Corporation, Santa Monica, Calif., 1968.

teacher; diagnostic tool; reading; elementary grades; management system--information; individualization

- 0150 Silberman, H. F., Coulson, J., Gunn, Evelyn, & Melarango, R. Development and Evaluation of Self-instructional Materials for Underachieving and Overachieving Students. TM-727, System Development Corp., Santa Monica, Calif., 1962.

teaching machine; geometry; reading; comprehension; branching; time; anxiety; repetition; individualization; achievement; programmed instruction; strategy--instructional; self-instruction; underachievement; overachievement

- 0151 Lippert, H. T. The Development of an Academic Year Institute in Computer-assisted Instruction. CAI Center, Florida State University, Tallahassee, 1967 (mimeo).

objectives; personnel; training; curriculum; learner; Florida State University

- 0152 Bunderson, C. V. Projections for a University-based CAI Activity. Paper presented at the annual American Educational Research Association meeting, Los Angeles, 1969.

curriculum; future; research; interaction; installations; graduate school; learner-controlled instruction

- 0153 Alpert, D., & Bitzer, D. L. Defense of Article. Science, 1970, 168, 1398+1400.

PLATO; cost

0154-0158

- 0154 Majer, K. A Study of Computer-assisted, Multi-media Instruction Augmented by Recitation Sessions. In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Annual Progress Report--January 1 thru December 31, 1968. CAI Center, Florida State University, Tallahassee, 1969. Pp. 77-87.
- physics; college; multi-media; achievement; ability; personality
- 0155 Majer, K. S. A Study of Computer Assisted Multi-media Instruction Augmented by Recitation Sessions. Technical Report 1, CAI Center, Florida State University, Tallahassee, 1969.
- multi-media; physics; college; anxiety; personality; ability; attitude; achievement; individualization
- 0156 Bolt, R. H. Computer-assisted Socratic Instruction. In W. D. Orr (Ed.), Conversational Computers. New York: Wiley, 1968. Pp. 90-95.
- dialogue system; Socratic system; individualization
- 0157 Majer, K. A Study of Computer-assisted, Multi-media Instruction Augmented by Recitation Sessions. Paper presented at annual meeting of American Educational Research Association, Los Angeles, 1969.
- physics; college; multi-media; achievement; ability; anxiety; personality; attitude
- 0158 Wadsworth, R. B. Systems Engineering and Automated Instructional Systems. In the Conference Digest of the IEEE's 11th Annual Symposium on Man-Machine Systems. Winter Park, Florida, Nov. 12-13, 1970. (Abstract).
- automation; learning; system analysis; curriculum

0159-0163

- 0159 Hayman, R. W., Lord, W., & Sadeh, W. Z. Colorado State University's Computer Managed Learning System. In the Conference Digest of the IEEE's 11th Annual Symposium on Man-Machine Systems. Winter Park, Fla., Nov. 12-13, 1970. (Abstract).

vector analysis; strategy--instructional; math; ability; Colorado State University; computer-managed learning

- 0160 Koffman, E. B. An Adaptive System for Teaching Problem Solving. In the Conference Digest of the IEEE's 11th Annual Symposium on Man-Machine Systems. Winter Park, Fla., Nov. 12-13, 1970. (Abstract).

problem solving; concept tree; adaptive system; curriculum

- 0161 Jackson, A. S., Brock, R., & Knight, B. R. Computer Aided Radar Operator Evaluation and Training. In the Conference Digest of the IEEE's 11th Annual Symposium on Man-Machine Systems. Winter Park, Fla., Nov. 12-13, 1970. (Abstract).

radar operators; training; simulation; software; achievement

- 0162 Zinn, K. L. An Instructional Environment for Interactive Problem Solving Using Computers. In the Conference Digest of the IEEE's 11th Annual Symposium on Man-Machine Systems. Winter Park, Fla., Nov. 12-13, 1970. (Abstract).

programming; language; user; computation; problem solving

- 0163 O'Neal, F. The Role of Public Schools in Computer Assisted Instruction. Educational Technology, 1970, 10(3), 5-10.

personnel; Kansas City; teacher; implementation; language; Coursewriter; IBM/1500; individualization; APL; training; curriculum; tutorial; debugging; science; junior high; math; personnel

0164-0169

- 0164 Feldman, D. H., & Sears, Pauline S. Effects of Computer Assisted Instruction on Children's Behavior. Educational Technology, 1970, 10(3), 11-14.
behavior; achievement; math; reading; elementary grades
- 0165 Bueschel, R. T. Time-sharing: A Pragmatic Approach in the School. Educational Technology, 1970, 10(3), 21-23.
time-sharing; language; math; BASIC
- 0166 Lumsdaine, A. A., & May, M. A. Mass Communication and Educational Media. Annual Review of Psychology, 1965, 16, 475-534.
mass media; programmed instruction; teaching machine; bibliography; audiovisual instruction; literature review
- 0167 Remmenga, E. E., Halvorson, W. K., & Owen, W. B. Use of Digital Computer as a Teaching Aid. Educational and Psychological Measurement, 1967, 27(1), 177-82.
statistics; problem solving
- 0168 Roe, A. Automated Teaching Methods Using Linear Programs. Journal of Applied Psychology, 1962, 46(3), 198-201.
teaching machine; lecture; response; programming; probability; college; programmed instruction
- 0169 Turner, Ann C. Computers as Teachers. New Republic, 1967, 157(1), 34-35.
reading; ability; criticism

0170-0175

- 0170 Fifteen Little Indians. New Republic, 1967, 156
(24), 6.

reading; arithmetic; touch sensitive device;
Westinghouse
- 0171 Featherstone, J. Classroom Gadgetry. New Republic,
1969, 160(22), 10-11.

individualization; cost; systems approach
- 0172 Ridgeway, J. Computer-tutor. New Republic, 1966,
154(23), 19-22.

talking typewriter; programmed instruction;
spelling; cost; financing; curriculum
- 0173 Coulson, J. E. Automated Teaching at System De-
velopment Corporation. TM-607, System Development
Corp., Santa Monica, Calif., 1961.

automated teaching; teaching machine; response;
CLASS; SDC
- 0174 Martin, J. H. Kaleidoscope for Learning. Saturday
Review, 1969, 52(25), 76-77; 86.

education; disadvantaged; hardware
- 0175 Lyman, Elisabeth R. A Descriptive List of PLATO
Lesson Programs: 1960-1964. Report R-186,
Coordinated Science Laboratory, University of
Illinois, Urbana, 1964.

automated teaching; PLATO; individualization;
tutorial; inquiry; REPLAB; simulation; curriculum

0176-0181

- 0176 Lippert, H. T., & Harris, E. V. APL: An Alternative to the Multi-language Environment for Education. Systems Memorandum 4, CAI Center, Florida State University, Tallahassee, 1970.
- APL; drill-and-practice; calculation; applications
- 0177 Bitzer, D. L., Lyman, Elisabeth R., & Suchman, J. R. REPLAB: A Study in Scientific Inquiry Using the PLATO System. Report R-260, Coordinated Science Laboratory, University of Illinois, Urbana, 1965.
- inquiry; PLATO; electronic blackboard; tutorial; REPLAB; science; student records; programming; training; strategy--instructional
- 0178 Avner, R. A. Heart Rate Correlates of Insight. Report R-198, Coordinated Science Laboratory, University of Illinois, Urbana, 1964.
- discovery; PLATO; heart rate; research
- 0179 Mathews, Linda. Blind Man Truly May Lead Blind. Los Angeles Times, Feb. 23, 1968, Pt. 11, 1+.
- blind; Braille
- 0180 Allen, W. H. Audio-visual Communication. In C. W. Harris (Ed.). Encyclopedia of Educational Research. (3rd Edition) New York: MacMillan, 1960. Pp. 115-37.
- audiovisual; bibliography; instruction
- 0181 Silberman, H. F., & Coulson, J. E. The Teaching Machine as an Educational Technique. In H. Borko (Ed.), Computer Applications in the Behavioral Sciences. Englewood Cliffs, N. J.: Prentice-Hall 1962. Pp. 308-35.
- automated teaching; teaching machine; drill-and-practice; strategy--instructional; PLATO; simulation; typewriter; branching; research tool; auto-instruction; CLASS; individualization

0182-0186

- 0182 Rodgers, T. S. Computer-assisted Instruction (CAI) and the Teaching of Economics. In K. G. Lumsden (Ed.), New Developments in the Teaching of Economics. Englewood Cliffs, N. J.: Prentice-Hall, 1967. Pp. 215-46.
- branching; drill; tutorial; simulation; economics; engineering economics; hardware; strategy--instructional; individualization
- 0183 Annual meeting of Association for Educational Data Systems, 1971, as reported in Convention Reporter, 1347-A 65th Drive, Lubbock, Texas.
- APL; project; overview; software; games; individualization; applications
- 0184 Kerr, E. G., Ting, T. C., & Walden, W. E. An Instructional System for Computer Assisted Instruction on a General Purpose Computer. Educational Technology, 1970, 10(3), 28-30.
- FORTRAN; IBM/360; math; high school; management; drill-and-practice; calculation; curriculum
- 0185 Swartz, G. B. Using a Small Computer in the College Mathematics Curriculum. Educational Technology, 1970, 10(3), 31-32.
- statistics; college; algebra; problem solving; effectiveness; motivation; classroom
- 0186 Dick, W., Latta, R., & Rivers, L. Sources of Information on Computer Assisted Instruction. Educational Technology, 1970, 10(3), 36-38.
- projects; public school

0187-0192

- 0187 Jacobson, M. D., & MacDougall, Mary Ann. Computer Management of Information and Structure in Computer-supported Instructional Materials. Educational Technology, 1970, 10(3), 39-42.
readability; programming; performance; response; presentation; branching; management--information; debugging; strategy--instructional; curriculum
- 0188 Zinn, K. L. Instructional Programming Languages. Educational Technology, 1970, 10(3), 43-46.
language; computation; strategy--instructional; natural language; problem solving
- 0189 Locke, R. W., & Engler, D. Run, Strawman, Run: A Critique of Run, Computer, Run. Educational Technology, 1970, 10(3), 47-50.
systems analysis; cost; individualization
- 0190 Kopstein, F. F. Why CAI Must Fail! Educational Technology, 1970, 10(3), 51-53.
politics; cost; teacher; hardware; implementation; curriculum
- 0191 Computerized Classrooms Are Almost Here. Changing Times, 1967, 21(3), 24-28.
programmed instruction; talking typewriter; reading; pre-school; television; teacher; software; individualization
- 0192 Spring, B. P. 'Plug-in' Schools: Next Step in Educational Design? Architectural Forum, 1963, 119(2), 68-73.
teaching machine; branching; media; audio-visual; architectural considerations

0193-0197

- 0193 Silberman, C. E. Technology is Knocking at the Schoolhouse Door. Fortune, 1966, 74(3), 120-25+.
industry; software; programmed instruction; feedback; discovery; games; simulation; teacher; obstacles; individualization
- 0194 Suppes, P., & Jerman, M. Computer Assisted Instruction at Stanford. Educational Technology, 1969, 9(1), 22-24.
tutorial; drill-and-practice; logic; algebra; gifted learner; Russian; college; math; reading; high school; programming; Stanford University; elementary grades
- 0195 Rosenbaum, J., & Dennik, F. D. CAI at System Development Corporation. Educational Technology, 1969, 9(2), 11-13.
PLANIT; author; language; software; natural language; physiology--eye; TUTOR; SDC; individualization
- 0196 Duncan, Ann D., & Slack, C. W. Computer Assisted Diversion in the Classroom. Educational Technology, 1969, 9(2), 39-40.
noise level; personnel; instruction; criticism
- 0197 IBM 1500 Component Descriptions--Input/Output Devices. Form Y26-3697-0, IBM Corp., Systems Development Division, Product Publications, Dept. G24, San Jose, Calif., 1968.
IBM/1500; IBM/1510; audio; image projector; typewriter; input/output; light pen; terminal

0198-0203

- 0198 IBM 1500 Station Commands User's Guide. Form Y26-5788-2, IBM Corp., Special Systems, Programming Documentation, Dept. D81, Bldg. 026, San Jose, Calif., 1967.
author; proctor; user; IBM/1500; terminal; learner
- 0199 National Special Media Institutes. Five-foot Shelf Bibliography on New Media and Instructional Technology. School of Education, University of Southern California, 1966.
bibliography
- 0200 Peplinski, Carol. A Generating System for CAI Teaching of Simple Algebra Problems. Technical Report 24, Computer Sciences Dept., University of Wisconsin, 1968.
drill-and-practice; problem generation; algebra; linear equations; quadratic equations
- 0201 Williams, W. H. W², the Beast and the Quest. Educational Technology, 1969, 9(10), 41-42.
systems approach; learner
- 0202 Colby, K. M. Computer-aided Language Development in Nonspeaking Children. Archives of General Psychiatry, 1968, 19(6), 641-51.
mentally disturbed children; games; case study; speech
- 0203 Molnar, A. R., & Sherman, Beverly. U. S. Office of Education Support of Computer Activities. Educational Technology, 1969, 9(4), 5-9.
U. S. Office of Education; U. S. O. E.; federal government; funding

0204-0210

- 0204 Hansen, D., Dick, W., & Lippert, H. Computers in Education at Florida State University. Educational Technology, 1969, 9(4), 47-48.
learning; hardware; tutorial; science; personnel; Florida State University
- 0205 Seidel, R. J. Is CAI Cost/Effective? The Right Question at the Wrong Time. Educational Technology, 1969, 9(5), 21-23.
cost; effectiveness; individualization
- 0206 CAI and Language Skills. Educational Technology, 1969, 9(2), C2.
German; ability; language arts
- 0207 Book Concerns Misuse of Computers in Schools. Educational Technology, 1969, 9(6), 76.
education; innovation
- 0208 Computer to Guide Music Instruction. Educational Technology, 1969, 9(6), 76.
piano; music; decision rules; elementary grades
- 0209 Dawson, K. E., & Norfleet, M. The Computer and the Student. NEA Journal, 1968, 57(2), 47-48.
motivation; performance; achievement; arithmetic; attitude; individualization; elementary grades; difficulty level
- 0210 An Apple for the Computer. Time, 1966, 88(12), 61.
Stanford University; math; reading; elementary grades

0211-0214

- 0211 Project to Explore Use of Computers in Chemistry Curriculum. Behavioral Sciences Newsletter for Research Planning, 1970, 7(2), 2.
- college; chemistry; strategy--instructional
- 0212 Seidel, R. J., Compton, Judy G., Kopstein, F. F., Rosenblatt, R. D., & See, Sally. Project IMPACT: Description of Learning and Prescription for Instruction. HumRRO Professional Paper 22-69, George Washington University, 1969. Paper presented at ACM Symposium, Gaithersburg, Maryland, June, 1969.
- IMPACT; branching; response; hardware; software; confidence; decision rules; COBOL; learning; instruction; curriculum; strategy--instructional; behavior
- 0213 Bunderson, C. V., & Dunham, J. L. Project on Cognitive Abilities and Learning. Technical Progress Report, Computer-assisted Instruction Laboratory, University of Texas, Austin, 1969.
- strategy--instructional; achievement; task analysis; ability; xenograde; science; concept learning; sequence; learner-controlled instruction; cognitive ability; anxiety; individualization; design--instructional
- 0214 Bunderson, C. V. Ability by Treatment Interactions in Designing Instruction for a Hierarchical Learning Task. Paper presented at annual meeting of American Educational Research Association, Los Angeles, 1969.
- cognitive ability; aptitude; design--instructional; science; college; ability; instructional designer; learning; strategy--instructional; individualization

0215-0219

- 0215 Churchill, Stacy, Naess, L., & Olivier, W. P. CAN-4, An Advanced Author Language for CAI, Computer-based Testing and Psychological Experimentation: PDP-9 Implementation. Ontario Institute for Studies in Education, Toronto, Ontario.
- tutorial; CAN-4; debugging; input/output; branching; computation; PDP-9; lanuage
- 0216 Olivier, W. P. Author and Student Controlled Mathematics Instruction by Computer with CAN-4. Ontario Institute for Studies in Education, Toronto, Ontario.
- programmed instruction; problem generation; math; college; diagnostic tool; testing; drill-and-practice; CAN-4; author-controlled instruction; programming; learner-controlled instruction; program-controlled instruction
- 0217 Meier, Dorothy L., & Bradford, C. H. The Study of Man. Trans-action, Washington University, St. Louis, Missouri, March/April, 1966.
- social science; simulation
- 0218 Bratten, J. E. A Systems Approach to the Improvement of Instruction. In D. Unwin (Ed.), Media and Methods: Instructional Technology in Higher Education. London: McGraw-Hill, 1969. Pp. 159-72.
- systems approach; system analysis; instruction
- 0219 Unwin, D. Some Likely Growth Areas. In D. Unwin (Ed.), Media and Methods: Instructional Technology in Higher Education. London: McGraw-Hill, 1969. Pp. 192-202.
- programmed instruction; teaching machine; decision rules; CLASS; PLATO; SOCRATES

0220-0223

- 0220 DeCecco, J. P. (Ed.) Educational Technology: Readings in Programmed Instruction. New York: Holt, Rinehart & Winston, 1964.
- teaching machine; sequence; stimulus; response; knowledge of results; evaluation; educational technology; programmed instruction; objectives--learning; individualization
- 0221 Reynolds, J. H., & Glaser, R. Effects of Linear and Spiral Programming upon Amount and Variability of Learning. In J. P. DeCecco (Ed.), Educational Technology: Readings in Programmed Instruction. New York: Holt, Rinehart & Winston, 1964. Pp. 164-69.
- programmed instruction; sequence; junior high; science; achievement; retention; branching; programming
- 0222 Stolurow, L. M., & Lippert, H. Prompting, Confirmation, and Overlearning in the Automated Teaching of a Sight Vocabulary. In J. P. DeCecco (Ed.), Educational Technology: Readings in Programmed Instruction. New York: Holt, Rinehart & Winston, 1964. Pp. 187-97.
- automated instruction; sequence; prompting; confirmation; stimulus; response; vocabulary; retention; overlearning
- 0223 Cummings, Allana, & Goldstein, L. S. The Effect of Overt and Covert Responding on Two Kinds of Learning Tasks. In J. P. DeCecco (Ed.), Educational Technology: Readings in Programmed Instruction. New York: Holt, Rinehart & Winston, 1964. Pp. 231-41.
- programmed instruction; response

0224-0228

- 0224 Bruno, L. Report of the Washington Summer Computer Assisted Instruction ESEA Title VI-A Project. Experimental Education Unit, Child Development & Mental Retardation Center, University of Washington, Seattle, 1969.
- language arts; math; handicapped children; history--CAI; hardware; software; literature review; project; drill-and-practice; learning; deaf; Washington summer project; attitude; individualization
- 0225 Riedesel, C. A. An Appraisal of Computer Assisted Instruction. Educational Technology, 1967, 7(10), 19-21.
- programmed instruction; advantages; effectiveness; teacher education; inservice education; cost
- 0226 Stanley, E. J. A Cybernetic Model for Creating and Operating an International Computer Assisted Instruction Facility (ICAIF). Educational Technology, 1969, 9(6), 24-28.
- systems approach; problem solving; curriculum; training; international; installation; programmer
- 0227 Butler, C. J. CAI in New York City: Report on the First Year's Operations. Educational Technology, 1969, 9(10), 84-87.
- math; English; adults; utilization; Dial-A-Drill; cost; acceptance; New York City; high school; achievement; attitude; elementary grades
- 0228 Arnold, R., & Penny, Ruth. Who Should Write CAI Curriculum? Educational Technology, 1969, 9(10), 88-91.
- teacher; author; Waterford, Mich.; math; INDICOM; training; elementary grades; workshop

0229-0233

- 0229 Hansen, D. N., O'Neil, H. F., Brown, B. R., King, A. D., & Rivers, L. C. Annual Progress Report-- Jan. 1, 1969 thru Dec. 31, 1969. Technical Report 8, CAI Center, Florida State University, Tallahassee, 1970.
- curriculum development; THEMIS; strategy--learner; simulation; games; Navy; overview; projects; personnel; training; hardware; literature review; Florida State University
- 0230 Merrill, J. R. Uses of Desk-top Computers in Introductory Laboratories. American Journal of Physics, 1970, 38(3), 334-36.
- physics; college; calculation
- 0231 Special Report: Computed Assisted Instruction. Students of Morgan High School, Clinton, Connecticut.
- high school; LEARN; APL; programming; algebra; math; word game; typing; drill; Latin; trigonometry; logarithms
- 0232 CAI Elementary English and CAI Remedial Reading. Harcourt, Brace & World, Inc., New York, 1969. (Booklet).
- drill-and-practice; branching; language arts; reading; junior high; English; curriculum; objectives; elementary grades; individualization
- 0233 Fitzgibbon, Norinne H. Evaluation and Data Analysis: Waterford Project-1969. Division of Instructional Systems, Harcourt, Brace & World, Inc., New York, (mimeo).
- English; achievement; intelligence; socioeconomic status; evaluation; data analysis; Waterford, Mich.; elementary grades

0234-0239

- 0234 Computer-assisted Instruction: Mathematics.
Hewlett Packard, Palo Alto, Calif., 1970.
(Booklet).

drill-and-practice; math; cost; elementary
grades
- 0235 Coles, L. S. Computer-aided Instruction Using an
Inferential Question-answering System with Natural
Language Input: A Plan for Research. Technical
Note II, Artificial Intelligence Group, Stanford
Research Institute, Menlo Park, Calif., 1969.

natural language; English; hardware; obstacles
- 0236 Weber, J. C., & Hagamen, W. D. Medical Education--
A Challenge for Natural Language Analysis, Arti-
ficial Intelligence, and Interactive Graphics.
Proceedings of the AFIPS Fall Joint Computer
Conference, 1969, 35, 307-18.

anatomy; tutorial; graphics; programming; medi-
cine; natural language
- 0237 Karplus, W. J. (Ed.) On-line Computing. New York:
McGraw-Hill, 1967.

time-sharing; graphics; problem solving; cost;
on-line
- 0238 Computers: No Longer a Classroom Novelty. Chem-
istry & Engineering News, 1969, 47(25), 48-49.

chemistry; problem solving; organic chemistry
- 0239 Can Computers Teach? Business Week, 1966, No. 1919,
44.

federal government

0240-0246

- 0240 Education: The Computer Challenge. Dun's Review, 1968, 92(3), 24+26.
programmed instruction; design--instructional;
teacher; obstacles
- 0241 Miller, J. R. C. Computer Simulation of a Nuclear Reactor. Engineering Education, 1971, 61(4), 345-47.
nuclear engineering; experiments; simulation
- 0242 Seidel, R. J. Computers in Education: The Copernican Revolution in Education Systems. Computers and Automation, 1969, 18(3), 24-26+28-29.
model--educational; strategy--instructional;
programmed instruction; IMPACT; applications
- 0243 Kopstein, F. F. Computers and Instruction at HumRRO. Educational Technology, 1969, 9(7), 25-28.
IMPACT; effectiveness; systems approach; project;
objectives; HumRRO
- 0244 Sloan, H. S. Costs of Automated Instruction in Higher Education. Educational Technology, 1969, 9(7), 37-39.
cost; higher education
- 0245 Computer-based Instruction for Medical Field. Educational Technology, 1969, 9(7), 58.
medicine, inservice education
- 0246 Way, Florine L. The DOVACK Model. EDUCOM, 1969, 4(5), 6-7.
DOVACK; strategy--instructional; reading;
curriculum; individualization

0247-0252

- 0247 Allison, W. C., & Borreson, H. A. Teaching Basic Electronics with Computer-assisted Instruction. Paper presented at the Information Systems Symposium, Washington, D. C., Sept., 1968.
- electronics; Army; training; effectiveness; efficiency; IBM/1500; strategy--instructional; achievement; cost
- 0248 Batoff, M. E. Computer-assisted Instruction: An Introduction and Guide to the Literature. Paper presented at the Annual Communications Convocation of the Division of Educational Communications, New York State Education Department, & New York State Educational Communication Association, Grossinger, N. Y., Nov., 1969.
- bibliography
- 0249 Engvold, K. J., & Hughes, J. L. A Model for a Multifunctional Teaching System. Communications of the ACM, 1967, 10(6), 339-42.
- programming; language; programmer mode
- 0250 Teichroew, D., & Lubin, J. F. Computer Simulation--Discussion of the Technique and Comparison of Languages. Communications of the ACM, 1966, 9(10), 723-41.
- simulation; language; bibliography
- 0251 Oettinger, A. G. A Vision of Technology and Education. Communications of the ACM, 1966, 9(7), 487-90.
- education; teacher; hardware; learner
- 0252 Bork, A. M. Instructional Uses of the Computer--1130 FORTRAN Mechanics Programs. American Journal of Physics, 1968, 36(10), 907.
- physics; mechanics; curriculum--programs

0253-0258

- 0253 Taylor, E. F. Automated Tutoring and Its Discontents. American Journal of Physics, 1968, 36(6), 496-504.
tutorial; vectors; ELIZA; limitations; cost; physics; relativity; attitude
- 0254 Bork, A., & Zellweger, A. Least Action Via Computer. American Journal of Physics, 1969, 37(4), 386-90.
physics; Rand tablet; principle of least action
- 0255 Kromhout, O. M., Edwards, S., & Schwarz, G. A Computer-guided, General-education Physics Course. American Journal of Physics, 1969, 37(10), 993-1007.
student records; achievement; personnel; language; hardware; physics; attitude; curriculum
- 0256 Andree, R. V. Reaction Paper. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 95-99.
math
- 0257 Annett, J., & Duke, J. (Eds.) Proceedings, Seminar on Computer Based Learning Systems. London: Books for Schools Ltd., 1969.
hardware; language; curriculum development; research & development; cost
- 0258 Mitzel, H. E. Conference Summary. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 145-51.
hardware; definition; software; language

0259-0264

- 0259 Mitzel, H. E. Computers and Adaptive Education. American Education, 1970 (Dec.), 6, 23-26.
individualization; branching; feedback; evaluation
- 0260 Mobile Program Trains Teachers While They're On the Job. Gerstenslager Co., Wooster, Ohio, 1970.
exceptional child; mobile CAI; teacher education; inservice education
- 0261 More Homework for "Knowledge Industry". Business Week, 1971, No. 2179, 96-98.
failure; cost; industry
- 0262 Morgan, Jane. Learning and the Computer. Science Digest, 1969, 66(6), 60-63.
physics; problem solving; tutorial; drill
- 0263 Morgan, R. M. A Review of Educational Applications of the Computer, Including Those in Instruction, Administration and Guidance. Series Two Paper, ERIC Clearinghouse on Educational Media and Technology, Stanford University, Stanford, Calif., 1969.
literature review; overview; computer-managed instruction; time-sharing; vocational guidance; applications
- 0264 Morrison, H. W., & Adams, E. N. Pilot Study of a CAI Laboratory in German. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 191-204.
German; college; language laboratory; achievement; attitude

0265-0269

- 0265 Muller, M. Computers and Communications. Paper presented at Institute for Computer-assisted Instruction meeting at Newport Beach, Calif., Jan. 28, 1969.
- cost; hardware; input/output; time-sharing; teleprocessing
- 0266 Caffrey, J. Higher Education and the Computer. NEA Journal, 1967, 56(2), 27-29.
- college; higher education
- 0267 CAI, Newsletter of the Institute for Computer-assisted Instruction, Doylestown, Pa., 1968, No. 1 (Dec.). 4 pp.
- cost; simulation; banking; prisoners as students; language arts; Russian; English; railroad; language; typing; junior high; funding; disadvantaged; PLANIT; data processing; training; law; airlines; medicine
- 0268 CAI Project Lets Learners Choose. R & D News, 1971, 2(4), 1-2. Research & Demonstration Center for the Education of Handicapped Children, Teacher's College, Columbia University, New York, New York.
- mentally retarded; reading; math; games; learner-controlled instruction
- 0269 CAI in Waterford Township School's INDICOM Project, etc. Papers presented at AEDS convention, Portland, Oregon. May 6-9, 1969. (Abstracts of Special Session A, May 8, 1969).
- Waterford, Mich.; teacher; INDICOM; personnel; project; hardware

0270-0275

- 0270 Campeau, Peggie L. Test Anxiety and Feedback in Programmed Instruction. Journal of Educational Psychology, 1968, 59(3), 153-63.
programmed instruction; anxiety; feedback; retention
- 0271 Campus Computers. Saturday Review, 1967, 50(15), 76.
higher education; Dartmouth
- 0272 Carlson, F. R., Jr. A Design Process for Computer Based Instructional Systems. Unpublished doctoral dissertation, University of Southern California, Los Angeles, 1970.
individualization; system design
- 0273 Carter, Launor F. The Challenge of Automation in Education. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 3-12.
automation; teacher; objectives--educational
- 0274 Carter, Launor F. Educational Technology--Computer-related and People-related. SP-3412, System Development Corp., Santa Monica, Calif., 1969.
educational technology; hardware; language; PLANIT; software; teacher; author
- 0275 Cartwright, G. P. Comparative Evaluation of the CARE Program and Conventional Instruction. Computer-assisted Instruction Laboratory, Pennsylvania State University, University Park, 1971 (mimeo).
exceptional child; achievement; evaluation; CARE program

0276-0281

- 0276 Cartwright, G. P., & Cartwright, Carol A. A Computer-assisted Instruction Course in the Early Identification of Handicapped Children. Computer-assisted Instruction Laboratory, Pennsylvania State University, University Park, 1970.
- teacher education; inservice education; exceptional child; mobile CAI; tutorial; inquiry; strategy--instructional
- 0277 CBI-70 System. Westinghouse Learning Corp., New York, N. Y.
- Westinghouse CBI-70; learning desk
- 0278 Chapman, R. L., & Carpenter, Janeth T. Computer Techniques in Instruction. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 240-53.
- hardware; TRW Mentor
- 0279 Chapp, Sylvia. Computer-assisted Instruction Programs on the Secondary School Level. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 239-46.
- Philadelphia; high school; curriculum development; language
- 0280 Chapp, Sylvia. Philadelphia Instructional Computer Facility Serves Entire Community at Economic Cost. Educational Media, 1969, 1, 7-9.
- Philadelphia; vocational education; high school; hardware; cost; installation; centralization
- 0281 Cherry, J. Georgia Computer Helps Track Apollo, Guides Students to the Future. Educational Media, 1970, 1(8), 8-10.
- curriculum; DeKalb County, Ga.

0282-0287

- 0282 Christopher, G. R. Sound Engineered Multi-media
CAI Carrel. Newsletter of the Association for
Development of Instructional Systems, March, 1971,
8-9.

terminal; noise
- 0283 Churchman, C. W. Systems Planning for Implementa-
tion of Change. In D. D. Bushnell & D. W. Allen
(Eds), The Computer in American Education. New
York: John Wiley & Sons, 1967. Pp. 44-48.

individualization; implementation; system design
- 0284 Coleman, A. J. The Use of APL in Teaching. IBM,
Data Processing Div., White Plains, N. Y., 1969.

language; APL; programming; drill
- 0285 Collet, L. Program SIMEX: A Simulated Experiment
for Teaching and Testing Research Competencies.
Office of Research Services, School of Education,
University of Michigan, Jan., 1969.

data bank; educational psychology; college
- 0286 Commission on College Geography. Computer Assisted
Instruction in Geography. Technical Paper No. 2,
Association of American Geographers, Washington,
D. C., 1969.

geography; college; curriculum
- 0287 Commission on Instructional Technology. To Improve
Learning. A Report to the President and the Con-
gress of the United States, U. S. Government Print-
ing Office, Washington, D. C., 1970.

instructional technology; cost; funding; overview

0288-0293

- 0288 Computer-assisted Instruction. Inquiry--The
 Pennsylvania State University, 1967, 2(2), 1-11.

 overview; Penn State; branching; curriculum devel-
 opment; spelling; attitude
- 0289 Computer-assisted Instruction Curriculum. RCA
 Instructional Systems, Palo Alto, Calif.

 programmed instruction; student records; drill-
 and-practice; Stanford University; English;
 reading; glossary; elementary grades
- 0290 Computer Assisted Instruction in Drill and Practice.
 Executive Computer Systems, Inc., Oak Brook, Ill.
 (Brochure).

 drill-and-practice
- 0291 Computer-assisted Instruction: An Introduction
 to Interpretive Coursewriter Coding. Computer
 Facility, University of California, Irvine,
 June, 1966.

 author; branching; curriculum development;
 language; Coursewriter
- 0292 Computer-assisted Instruction Stepping Up in
 Class. Electronics, 1968, 41(1), 116-17.

 funding; New York City; dial-access systems
- 0293 Computer-assisted Learning and the University of
 California, Irvine: An Introduction. Computer
 Facility, University of California, Irvine, July 3,
 1967.

 funding; genetics; college; American history;
 social sciences; IBM 1410/1440; University of
 California, Irvine

0294-0300

- 0294 Computer Contributions to Learning and Performance: An Outline. SIGCAI Interface, 1970, 4(1), 6-12.
language; hardware; software; learning
- 0295 Computerized Math for Teeny-Boppers. Datamation, 1969, 15(10), 49+.
cost; math; business education; junior high; high school
- 0296 Computers. Electronics, 1967, 40(2), 44+.
reading; Rand tablet; language
- 0297 Computers: Super-media for Education? Computer Decisions, 1970, 2(4), 23-26.
overview; junior high; math; interaction; drill-and-practice; arithmetic; Stanford University; PLATO; levels of CAI; elementary grades
- 0298 The Computer that Talks Like a Teacher. Journal of Accountancy, 1964, 17(5), 27-28+30.
Socratic system; economics; curriculum
- 0299 Computer to Teach College Students. Science News Letter, 1964, 86(15), 232.
Penn State; IBM; college
- 0300 Computer Uses in Education: A Report of an Operational Project. Santa Barbara High School District, Santa Barbara, Calif., 1967.
high school; algebra; physics; achievement; motivation; applications; curriculum--programs

0301-0306

- 0301 A.P.T.P.: The Arithmetic Proficiency Training Program. Science Research Associates, Inc., Chicago, Ill. (Booklet).
arithmetic; strategy--instructional; elementary grades
- 0302 Bitzer, D. L., Braunfeld, P. G., & Lichtenberger, W. W. PLATO II: A Multiple-student, Computer-controlled, Automatic Teaching Device. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 205-16.
PLATO; hardware; strategy--instructional
- 0303 Computer Uses in Education: Part II. A Compilation of Computer Programs to be Used in Physics. Santa Barbara High School District, Santa Barbara, Calif., 1967.
physics; high school; curriculum--programs
- 0304 Computer Uses in Education: Part III. A Compilation of Computer Programs to be Used in Algebra. Santa Barbara High School District, Santa Barbara, Calif., 1967.
algebra; high school; curriculum--programs
- 0305 Conference on Computers in Chemical Education and Research. Newsletter of the Association for Development of Instructional Systems, March, 1971, 16.
chemistry; education; research; applications
- 0306 Confronting the New Technology. Business Education World, 1967, 48(4), 11+.
business education; high school; problem solving

0307-0311

- 0307 Conti, D. M. An Interactive System to Teach FORTRAN. SIGCAI Interface, 1970, 4(2), 18-20.
FORTRAN--course in; interaction
- 0308 A Continuation Application for a Computer Assisted Instruction Laboratory in Mathematics and Science. Kansas City, Missouri, School District, 1969.
Kansas City; strategy--instructional; teacher; personnel; student records; achievement; math; science; junior high; individualization; attitude
- 0309 Cook, D. A. Behavior Theory and the Automation of Instruction. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Sons, Inc., 1962. Pp. 120-28.
programmed instruction; response; sequence; branching; behavior theory
- 0310 Cooley, W. W., & Glaser, R. The Computer and Individualized Instruction. Science, 1969, 166, 574-82.
computer-managed instruction; decision rules; implementation; Individually Prescribed Instruction; IPI; individualization
- 0311 Cooley, W. W., & Glaser, R. An Information and Management System for Individually Prescribed Instruction. In R. C. Atkinson and H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 95-117.
individualization; computer-managed instruction; individually prescribed instruction; management system; diagnostic tool

0312-0317

- 0312 Corrin, M. L. Lecture Demonstrations with an Analog Computer. Journal of Chemical Education, 1966, 43 (11), 579-81.
chemistry; college; laboratory; demonstration
- 0313 Coulson, J. E. A Computer-based Laboratory for Research and Development in Education. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 191-204.
System Development Corp., branching; CLASS; multimedia; research & development
- 0314 Coulson, J. E. (Ed.). Programmed Learning and Computer-based Instruction. New York: John Wiley & Sons, 1962.
programmed instruction; CLASS; PLATO
- 0315 Coulson, J. E. Present Status and Future Prospects of Computer-based Instruction. SP-1629, System Development Corp., Santa Monica, Calif., 1964.
programmed instruction; branching; research; tutorial; individualization; CLASS; System Development Corp.; future; obstacles
- 0316 Coulson, J. E. Computer-based Instruction. SP-2859/000/00, System Development Corp., Santa Monica, Calif., 1968.
rationale; theory; individualization; CLASS; overview; project; cost
- 0317 Coulson, J. E. Computer-assisted Instructional Management. SP-3300, System Development Corp., Santa Monica, Calif., 1969.
management--instructional; student records; cost

0318-0322

- 0318 Coulson, J. E., Estavan, D. P., Melarango, R. J., & Silberman, H. F. Effects of Branching in a Computer-controlled Auto-instructional Device. Journal of Applied Psychology, 1962, 46(6), 389-92.
- branching; evaluation; logic; high school; time; aptitude
- 0319 Coulson, J. E., & Kooi, Beverly Y. Classroom Progress Reports for the Instructional Management System. SP-3056/002/00, System Development Corp., Santa Monica, Calif., 1968.
- Instructional Management System; achievement; diagnostic tool; teacher; reading; math; student records; remedial material; elementary grades; management system--instructional
- 0320 Coulson, J. E., & Silberman, H. F. Effects of Three Variables in a Teaching Machine. Journal of Educational Psychology, 1960, 51(3), 135-43.
- teaching machine; response; step size; branching
- 0321 Coulson, J. E., & Silberman, H. F. Automated Teaching and Individual Differences. AV Communication Review, 1961, 9(1), 5-15.
- teaching machine; individualization; sequence; branching; response; step size; psychology; reinforcement; Bendix G-15
- 0322 Coursewriter III for System/360 (360A-UX-01X) Version 2: Author's Guide. H20-0609-0, IBM Corp., White Plains, N. Y., 1969.
- language; Coursewriter III; IBM/360

0323-0328

- 0323 Cron, R. L. Why Automate Instruction? IRE Transactions on Education, 1961, E-4(4), 132-34.
automation; tutoring; feedback; individualization
- 0324 Crowder, N. A. Intrinsic and Extrinsic Programming. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 58-66.
branching; programming
- 0325 Curriculum and Professional Library. Individualized Instruction: A Selected Bibliography. Valley Voice Supplement, Genesee Valley Regional Education Center, Rochester, N. Y., 1971.
bibliography; individualization
- 0326 Randall, R., & Blaschke, C. Educational Technology: Economics, Management and Public Policy. In J. F. Feldhusen, A Position Paper on CAI Research and Development. ERIC Clearinghouse on Educational Media & Technology, 1970. P. 28 (Abstract).
cost; educational technology; management
- 0327 Rathe, G. H., Jr. Computer-assisted Instruction--Exciting New Tool for Teaching the Deaf. American Annals of the Deaf, 1969, 114(5), 884-88.
deaf; programming; drill-and-practice; tutorial; dialogue system; individualization
- 0328 Rathe, H. G., Jr. Computer-assisted Instruction and Its Potential for Teaching Deaf Students. American Annals of the Deaf, 1969, 114(5), 880-83.
deaf; industrial education; math

0329-0334

- 0329 Raucher, S. M. APL and Its Utilization in the Classroom. IBM Corp., Data Processing Div., Washington, D. C.
language; APL; problem solving; physics; high school; simulation
- 0330 RCA Computer Systems for Education. RCA, Cherry Hill, N. J., 1970. (Publicity packet).
hardware; RCA Instructional 70 System; RCA Instructional 71 System; software; curriculum; language; LISA; drill-and-practice; English; elementary grades
- 0331 RCA Information Folder. RCA Instructional Systems, Palo Alto, Calif.
teacher; English; reading; arithmetic; drill-and-practice; RCA Instructional 70 System; project; curriculum; elementary grades
- 0332 RCA Instructional Systems Form IS-753-048, Palo Alto, Calif. (Folder booklet).
individualization; RCA; reading; arithmetic; English; teacher; drill; elementary grades
- 0333 Reil, F. C. Snoopy and C. Brown Take Over for Little RRH and Three Pigs. Educational Media, 1970, 1(10), 11.
reading; programming; elementary grades
- 0334 Project Abstract: University of Iowa. In Computer Applications in Dental Education: A Conference Report. Washington, D.C.: U. S. Department of Health, Education, & Welfare, 1971. P. 153 (Abstract).
University of Iowa; dentistry; periodontics; project

0335-0340

- 0335 A Report on Research & Development Capabilities.
Westinghouse Learning Corp., N. Y., N. Y.
(Brochure).

Westinghouse Learning Corp.; PLAN; Annapolis;
CBI-70; research & development
- 0336 Results of CAI Program in Reading Revealed. Behav-
ioral Sciences Newsletter for Research Planning.
1970, 7(9), 5.

reading; Stanford University; achievement
- 0337 Reynolds, D. Computer-assisted Instruction: Cur-
rent Trends. Institute for Computer-assisted In-
struction, Doylestown, Pa., 1968.

drill-and-practice; games; simulation; learner-
controlled instruction; disadvantaged; multi-
media; tutorial; testing
- 0338 Reynolds, D. Potentials and Problems in CAI Re-
search. Paper presented at National Society for
Programmed Instruction convention, San Antonio,
Texas, 1968.

research; response; reinforcement; learning;
future; obstacles
- 0339 Rhea, J. Learning a Trade by Computer. Elec-
tronics, 1966, 39(23), 229-31+.

vocational education; simulation; federal govern-
ment
- 0340 Richardson, E., & McSweeney, J. An Analysis of
the E.R.E. "Talking Typewriter" as a Device for
Teaching Beginning Reading Skills. Educational
Technology, 1970, 10(2), 81-88.

talking typewriter; reading; programmed instruction;
elementary grades

0341-0346

- 0341 Rigney, J. W. Potential Uses of Computers as Teaching Machines. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 155-70.
individualization; interaction; training; games; programmed instruction; sequence; branching
- 0342 Rising, G. R. Mathematics and Computers. School Science & Mathematics, 1965, 65, 815-16.
math; high school
- 0343 Robinson, D. M. A Computer Engineering Laboratory. Proceedings of AIPS Fall Joint Computer Conference, 1969, 35, 515-23.
problem solving; electrical engineering; laboratory
- 0344 Roe, A. A Comparison of Branching Methods for Programmed Learning. Journal of Educational Research, 1962, 55(9), 407-16.
programmed instruction; branching
- 0345 Roe, A. Research in Programmed Learning. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Sons, Inc., 1962. Pp. 113-19.
programmed instruction; overview
- 0346 Rogers, J. L. Current Problems in CAI. Datamation, 1968, 14(9), 28-33.
limitations; hardware; language; software; curriculum; obstacles

0347-0351

- 0347 Rogers, J. L. Current Problems in CAI. In J. F. Feldhusen, A Position Paper on CAI Research and Development. ERIC Clearinghouse on Educational Media & Technology, Stanford University, Stanford, Calif., 1970. P. 17 (Abstract).
limitations; software; obstacles
- 0348 Roster of Computer-assisted Instruction Centers and Laboratories. Computers & Automation, 1968, 17(6), 135.
installations
- 0349 Ruddick, J. J. Potential Well Problems. American Journal of Physics, 1967, 35(4), 351.
quantum mechanics; rectangular-well potential; strategy--instructional
- 0350 Rushton, G. A Computer Model for the Study of Agricultural Land Use Patterns. In Commission on College Geography, Computer Assisted Instruction in Geography. Technical Paper No. 2, Association of American Geographers, Washington, D. C., 1969. Pp. 141-50.
geography; college; simulation
- 0351 Ryans, D. G. The Application of Programmed Instruction and Auto-instructional Devices in Colleges and Their Relation to a Theory of Instruction. SP-1084/100/01, System Development Corp., Santa Monica, Calif., 1963.
autoinstruction; individualization; programmed instruction; instruction theory; motivation; teacher; system analysis; CLASS; branching; multi-media; college

0352-0356

- 0352 Davenport, Beverly A., II. The Florida State University Data Management System for the IBM 1500/1800 Instructional System (Introductory Documentation). In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Annual Progress Report--Jan. 1 thru Dec. 31, 1968. Report 7, CAI Center, Florida State University, Tallahassee, 1969. Pp. 168-204.
- data management system; IBM 1500/1800; student records; Florida State University
- 0353 Dean, P. M. Learner Versus Teacher Controlled Arithmetic Practice. Paper presented at Department of Audiovisual Instruction/NEA conference, Portland, Oregon, 1969.
- arithmetic; learner-controlled instruction; achievement; age; retention; drill-and-practice; teacher-controlled instruction; elementary grades
- 0354 Dear, R. E., & Atkinson, R. C. Optimal Allocation of Items in a Simple, Two-concept Automated Teaching Model. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 25-45.
- branching; learning model
- 0355 Dettlaff, Nanette M. IBM 360 Installation Summary. Computer-assisted Instruction Laboratory, University of Texas, Austin.
- IBM/360; software; hardware; installations
- 0356 Dick, W. Curriculum Evaluation Via CAI for the Intermediate Science Curriculum Study. Paper presented at AERA meeting, Chicago, 1968.
- science; evaluation; proctor; student records; cost; junior high

0357-0361

- 0357 Dick, W. Computerized Instructional Management Systems. In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Annual Progress Report--Jan. 1 thru Dec. 31, 1968. Report 7, CAI Center, Florida State University, Tallahassee, 1969. Pp. 153-57.
- individualization; input/output; software; hardware; management system--instructional; training
- 0358 Dick, W. The Implementation of CAI at Florida State University. Technical Memo 1, CAI Center, Florida State University, Tallahassee, 1969.
- implementation; cost; financing; personnel; hardware; Florida State University; training
- 0359 Dick, W. An Overview of Computer-assisted Instruction for Adult Educators. Technical Memo 9, CAI Center, Florida State University, Tallahassee, 1969.
- adult education; drill-and-practice; tutorial; problem solving; physics; college; multi-media; achievement; hardware; cost; computer-managed instruction; overview
- 0360 Dick, W., & Latta, R. Comparative Effects of Ability and Presentation Mode in Computer-assisted Instruction and Programmed Instruction. Technical Memo 5, CAI Center, Florida State University, Tallahassee, 1969.
- effectiveness; programmed instruction; ability; math; achievement; retention; sex; error rate; presentation mode; junior high
- 0361 Dick, W., & Latta, R. Comparative Effects of Ability and Presentation Mode in Computer-assisted Instruction and Programmed Instruction. AV Communication Review, 1970, 18(1), 33-45.
- ability; math; sex; achievement; retention; programmed instruction; error rate; presentation mode; junior high

0362-0367

- 0362 Dick, W., Rivers, L., King, A. D., & Hansen, D. N. Development of a Model for Adaptive Training via Computer-assisted Instruction Utilizing Regression Analysis Techniques. Technical Report 10, CAI Center, Florida State University, Tallahassee, 1970.
adaptive training; decision model; latency; confidence; performance; remediation; regression analysis techniques; response
- 0363 Dorn, W. S. Computers in the High School. Datamation, 1967, 13(2), 34-38.
problem solving; instruction; math; high school
- 0364 Doty, Barbara A., & Doty, L. A. Programmed Instructional Effectiveness in Relation to Certain Student Characteristics. Journal of Educational Psychology, 1964, 55(6), 334-38.
programmed instruction; achievement; social need; creativity; effectiveness; individualization
- 0365 Dowsey, M. W. Toward a True Author Entry System for CAI. Technical Report No. 5, Computing Laboratory, University of Newcastle upon Tyne, Claremont Tower, Claremont Road, Newcastle upon Tyne, NE1 7RU, England, 1969.
author; language; input
- 0366 Dowsey, M. W. Newcastle University Teaching System User's Guide. Computing Laboratory, University of Newcastle upon Tyne, Newcastle upon Tyne, NE1 7RU, England, 1970.
language; glossary; dialogue system; Newcastle University Teaching System; NUTS
- 0367 Doyle, P. J. Computer Excels as Teacher. The Kansas City Star, 1969, 90(67), Sect. A, 1+.
Kansas City; science; math; junior high

0368-0373

- 0368 Duke, J., & Annett, J. Reappraisal of Problems and Priorities. In J. Annett & J. Duke (Eds.), Proceedings, Seminar on Computer Based Learning Systems, University of Leeds, Sept. 8-12, 1969. Pp. 94+.
- hardware; software; obstacles
- 0369 Dwyer, T. A. Project SOLO: A Statement of Position Regarding CAI and Creativity. SIGCAI Interface, 1970, 4(1), 13-15.
- creativity; learning by discovery; SOLO
- 0370 IBM 1500 Coursewriter II, Author's Guide. Form Y26-1580-0, IBM Corp., San Jose, Calif., 1968.
- language; author; Coursewriter II; IBM/1500
- 0371 IBM 3735. IBM Corp., White Plains, N. Y. (Brochure).
- hardware; terminal; IBM/3735
- 0372 If You Do/Don't Know BASIC.... Data General Corp., Southboro, Mass. (Sheet).
- language; BASIC
- 0373 INDICOM--Final Report, Total Project Operation, Aug. 1, 1967 to November 30, 1970. Waterford School District, Pontiac, Mich., 1971.
- INDICOM; Waterford, Mich.; individualization; hardware; RCA Instructional 71 system; teacher; author; training; language; elementary grades; math; drill-and-practice; language arts; high school; deaf; audiovisual; evaluation; achievement; attitude; project; overview; business education; reading; science; social studies; spelling; glossary; inservice education; teacher education

0374-0379

- 0374 Individualized Instruction--Today! Applications.
Bulletin of Computer Applications Inc.--Insti-
tutional Series, 1968. (Form 12-12168).
- individualization; systems analysis; drill-and-
practice; simulation; tutorial
- 0375 Innovation in Education: New Directions for the
American School. Statement by the Research &
Policy Committee of the Committee for Economic
Development, 1968.
- cost; individualization; innovation
- 0376 Instructional 70 User's Guide to Instructional
Language-1. No. 8 (Revision No. 1), RCA Instruc-
tional Systems, Palo Alto, Calif., 1968.
- RCA Instructional 70 System; language; author;
curriculum development
- 0377 Instructional & Management Control Systems: Gen-
eral Information Manual. Executive Computer Sys-
tem, Inc., Oak Brook, Ill. (Publication CAI
70-06-1002-1. Revised 01/6/29/70.)
- drill-and-practice; math; English; adult educa-
tion; college; hardware; strategy--instructional;
elementary grades; management system--instruc-
tional
- 0378 High School Students to Learn from Computer. Ed-
ucational Technology, 1968, 8(11), C2.
- high school; math; Philadelphia; Pittsburgh
- 0379 Education of Exceptional Children: An Individ-
ualized Credit Course Taught by Computer-assisted
Instruction. Computer-assisted Instruction Lab-
oratory, Pennsylvania State University, University
Park, 1971 (course description flyer).
- teacher; inservice education; exceptional children;
mobile CAI

0380-0385

- 0380 Education Systems Department. TM-4276, System Development Corp., Santa Monica, Calif., 1969.
SDC; hardware; installations; System Development Corp.
- 0381 Ehlers, W. H. Computer-assisted Instruction in Social Work Education. Technical Memo 4, CAI Center, Florida State University, Tallahassee, 1969.
psychology; child development; sociology; simulation; social work; remediation; diagnostic tool
- 0382 Ellis, A. B. Discussion: Educational Technology: New Myths and Old Realities. Harvard Educational Review, 1968, 38(4), 724-30.
education
- 0383 Ellison, A. Problems of Applying Computer Technology to Teacher Education. Educational Technology, 1970, 10(11), 35-39.
teacher education; software; obstacles
- 0384 Ely, D. P. (Ed.) The Changing Role of the Audiovisual Process in Education: A Definition and a Glossary of Related Terms. AV Communication Review, 1963, 11(1), 1-148.
glossary; programmed instruction; audiovisual
- 0385 Engel, G. L. Computer-assisted Instruction: A Selected Bibliography and KWIC Index. Technical Memo K-3/67, U. S. Naval Weapons Laboratory, Dahlgren, Va., 1967.
bibliography; keyworded index

0386-0391

- 0386 Engel, G. L. Computer-assisted Instruction: A Selected Bibliography and KWIC Index. NWL Technical Report TR-2283, U. S. Naval Weapons Laboratory, Dahlgren, Va., 1969.
bibliography; KWIC index
- 0387 English: Application Units. Computer Utility for Educational Systems, Northwest Regional Educational Laboratory, Portland, Oregon, 1969.
English; poetry
- 0388 ENTELEK Computer-based Math Lab. ENTELEK Inc., Newburyport, Mass. (Brochure).
time-sharing; math; drill; simulation; ENTELEK; high school
- 0389 Estrin, G. Interactions between Future Computer Developments and Automated Teaching Methods. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 281-88.
hardware; cost; automation; research & development
- 0390 Executive Computer Systems, Inc.. Executive Computer Systems, Inc., Oak Brook, Ill. (Booklet).
strategy--instructional; Executive Computer Systems, Inc.; curriculum
- 0391 Experimental Series of Lectures for Teachers Utilizes the Computer, Television, & the Telephone. IEEE Spectrum, 1968, 5(3), 125.
multi-media; inservice education; teacher education

0392-0396

- 0392 Jacobson, M. D., MacDougall, Mary Ann, & Pyatte, J. A. Computer Management of Information and Structure in Computer-supported Instructional Systems. Paper AEDS convention, Portland, Oregon, May, 1969. (Abstract).
evaluation; readability; management--information; curriculum
- 0393 James, N. E. Personal Preference for Method as a Factor in Learning. Journal of Educational Psychology, 1962, 53(1), 43-47.
learning; strategy--instructional
- 0394 Jamison, D., Suppes, P., & Butler, C. Estimated Costs of Computer Assisted Instruction for Compensatory Education in Urban Areas. Educational Technology, 1970, 10(9), 49-57.
compensatory education; disadvantaged; drill-and-practice; arithmetic; reading; cost; effectiveness; achievement; urban; elementary grades
- 0395 Jerman, M. E. Characteristics of CAI Configurations from an Author's Viewpoint. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 24-44.
hardware; terminal; evaluation; CAI system
- 0396 Jerman, M. Promising Developments in Computer Assisted Instruction. Educational Technology, 1969, 9(8), 10-18.
software; drill-and-practice; math; Stanford University; strategy--instructional; reading; tutorial; time-sharing; hardware; strand; elementary grades

0397-0402

- 0397 Joint Quarterly Report - UCI-IBM Educational Applications Project, 8/1-10/31/1967. University of California, Irvine, 1967.
- language; author; CAL; math; science; social sciences; IBM; University of California, Irvine; curriculum
- 0398 Jones, W. L. The Computer in an Electronics Project Laboratory. Engineering Education, 1971, 61(4), 354-55.
- electronics; laboratory; simulation; circuit design; college
- 0399 Jordan, F. Computer Assisted Instruction (CAI) Units on Map Projections and the Concept of Scale. In Commission on College Geography, Computer Assisted Instruction in Geography. Technical Paper No. 2, Association of American Geographers, Washington, D. C., 1969. Pp. 9-32.
- geography; college; curriculum--programs
- 0400 Justice, K. E. The Use of Computers in Undergraduate Biology Instruction. Paper presented at conference on Undergraduate Teaching in Agronomy, Washington, D. C., Nov. 3-4, 1967.
- tutorial; computation; simulation; genetics; college; biology
- 0401 Falkoff, A. D., & Iverson, K. E. APL/360: User's Manual. IBM Corp., Thomas Watson Research Center, Yorktown Heights, N. Y., 1968.
- IBM/360; APL
- 0402 Fano, R. M., & Corbato, F. J. Time-sharing on Computers. Scientific American, 1966, 215(3), 129-38+.
- time-sharing

0403-0408

- 0403 Feingold, S. L. PLANIT--A Flexible Language Designed for Computer-human Interaction. Proceedings of the AFIPS Fall Joint Computer Conference, 1967, 31, 545-52.
language; author; PLANIT; calculation; branching; interaction; programming
- 0404 Feingold, S. L. PLANIT: A Flexible Language Designed for Computer-human Interaction. SP-2840, System Development Corp., Santa Monica, Calif., 1967.
language; author; PLANIT; interaction; calculation; branching
- 0405 Feingold, S. L. PLANIT--A Language for CAI. Documentation, 1968, 14(9), 41+44-47.
language; PLANIT; programming
- 0406 Feingold, S. L., & Frye, C. H. User's Guide to PLANIT. TM-3055/000/01, System Development Corp., Santa Monica, Calif., 1966.
time-sharing; language; author; PLANIT
- 0407 Feldhusen, J. F. A Position Paper on CAI Research and Development. Series Two Paper from ERIC Clearinghouse on Educational Media and Technology, Institute for Communication Research, Stanford University, Stanford, Calif., 1970.
literature review; cost; rationale; language; hardware; interface; research & development
- 0408 Feldhusen, J., & Szabo, M. The Advent of the Educational Heart Transplant, Computer-assisted Instruction: A Brief Review of Research. Contemporary Education, 1969, 40, 265-74.
definition; literature review; learning; overview; individualization

0409-0414

- 0409 Feldhusen, J. F., & Szabo, M. A Review of Developments in Computer-assisted Instruction. Educational Technology, 1969, 9(4), 32-39.
- definition; information sources; theory; literature review; hardware; CAI systems; language; interface; cost; overview
- 0410 Ferguson, R. L. Computer-assisted Criterion-referenced Testing. Working Paper No. 49, Learning Research and Development Center, University of Pittsburgh, Pennsylvania, 1969.
- testing; math; elementary grades
- 0411 Feurzeig, W. Conversational Teaching Machine. Datamation, 1964, 10(6), 38-42.
- Socrates; medicine; dialogue system; teaching machine
- 0412 Feurzeig, W. Towards More Versatile Teaching Machines. Computers & Automation, 1965, 14(3), 22-25.
- Socratic system; natural language; dialogue system; medicine
- 0413 Fielding, G. J. The Town That Wanted a Freeway: A CAI Unit Examining the Impress of the Political Process on Spatial Distributions. In Commission on College Geography, Computer Assisted Instruction in Geography. Technical Paper No. 2, Association of American Geographers, Washington, D. C., 1969. Pp. 79-113.
- geography; college; debugging; curriculum--program
- 0414 Fifth Rochester Conference on Self-instruction in Medical Education. Newsletter of the Association for Development of Instructional Systems, March, 1971, 17.
- self-instruction; medicine

0415-0419

- 0415 Finn, J. D. Teaching Machines: Autoinstructional Devices for the Teacher. NEA Journal, 1960, 49(8), 41-44.
programming; individualization; autoinstruction
- 0416 Fishman, Elizabeth J., Keller, L., & Atkinson, R. C. Massed Versus Distributed Practice in Computerized Spelling Drills. Journal of Educational Psychology, 1968, 59(4), 290-96.
drill; spelling; retention; practice; elementary grades
- 0417 Fishman, Elizabeth J., Keller, L., & Atkinson, R. C. Massed Versus Distributed Practice in Computerized Spelling Drills. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 227-37.
drill-and-practice; spelling; practice; elementary grades
- 0418 Five Massachusetts Schools Pioneer Computer Education. Educational Media, 1970, 1(10), 8-10.
high school; time-sharing; cost; curriculum; attitude
- 0419 Fonkalsrud, E. W., Hammidi, I. B., & Maloney, J. V., Jr. Computer-assisted Instruction in Undergraduate Surgical Education. Surgery, 1967, 62(1), 141-47.
medicine

0420-0425

- 0420 Foster, G. H., & Jones, W. J. On the Efficiency of Language Processors. In G. Foster, et al, Large Scale Information Processing System. Vol. II, Technical Report RADC-TR-68-401, Vol. II, Rome Air Development Center, AF Systems Command, Griffis AFB, N. Y., 1969.
language; APL/360; time-sharing
- 0421 Freeman, W. F. Computer Support of Instruction at the US Army Infantry School. Paper at AEDS convention Portland, Oregon, 1969. (Abstract).
hardware; ARMY
- 0422 Frye, C. H. CAI Languages: Capabilities and Applications. Datamation, 1968, 14(9), 34-37.
language; author; installations
- 0423 Frye, C. H. CAI Languages: Their Capabilities and Applications. SP-3107, System Development Corp., Santa Monica, Calif., 1968.
language; author; installations
- 0424 Frye, C. H. CAI Languages: Their Capabilities and Applications. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 317-25.
languages; author; installations
- 0425 Frye, C. H., Bennik, F. D., & Feingold, S. L. Interim User's Guide to PLANIT: The Author-Language of the Instructor's Computer Utility. TM-3055/000/03, System Development Corp., Santa Monica, Calif., 1968.
language; author; PLANIT; branching; calculation

0426-0431

- 0426 Kalin, R. Reaction Paper. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 50-56.
- individualization; hardware; computation; terminal; cost
- 0427 Kanner, J. H. CAI--The New Demonology? Datamation, 1968, 14(9), 38-40.
- overview
- 0428 Kanner, J. H. CAI--The New Demonology. In J. F. Feldhusen, A Position Paper on CAI Research and Development. ERIC Clearinghouse on Educational Media & Technology, Stanford University, Stanford, Calif., 1970. P. 18 (Abstract).
- overview
- 0429 Keislar, E. R., & McNeil, J. D. A Comparison of Two Response Modes in an Autoinstructional Program with Children in the Primary Grades. Journal of Educational Psychology, 1962, 53(3), 127-31.
- response; science; teaching machine; autoinstruction; elementary grades
- 0430 Keislar, E. R., & McNeil, J. D. Teaching Science and Mathematics by Autoinstruction in the Primary Grades: An Experimental Strategy in Curriculum Development. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 99-112.
- hardware; science; elementary grades; math; presentation mode; curriculum development
- 0431 Keller, L. Reference Manual: Course Author Language CAL. University of California, Irvine, 1968.
- language; author; CAL

0432-0437

- 0432 Kelsey, K. W. Exercises in Computer-assisted Physics and Mathematics. School Science & Mathematics, 1967, 67, 119-23.
physics; math; high school; graphing; laboratory; attitude
- 0433 Kemeny, J. G., & Kurtz, T. E. Dartmouth Time-sharing. Science, 1968, 162, 223-28.
time-sharing; software; liberal arts; BASIC; Dartmouth; hardware
- 0434 Kent, W. P. Feasibility of Computer-assisted Elementary Keyboard Music Instruction. TM-WD-347, System Development Corp., Falls Church, Va., 1970.
music; elementary grades; piano; keyboard; cost; hardware; software; achievement; feasibility
- 0435 Kight, H. R., & Sassenrath, J. M. Relation of Achievement Motivation and Test Anxiety to Performance in Programmed Instruction. Journal of Educational Psychology, 1966, 57(1), 14-17.
programmed instruction; achievement motivation; anxiety; performance
- 0436 King, J. H. The 'Free Resource' Computer and the Junior College. Educational Technology, 1970, 10(3), 24-27.
APL/360; computation; testing; CAL; multi-media; junior college; installation
- 0437 Kolsky, H. G. Problem Formulation Using APL. IBM Systems Journal, 1969, 8(3), 204-19.
APL

0438-0443

- 0438 Königshofer, F., & Lang, C. B. COPI 494: Version 1. Rechenzentrum Graz, A-8010, Graz, Steyrergasse 17, July, 1970.
language; COPI; COPI 494 system; student records
- 0439 Kooi, Beverly Y., & Geddes, C. The Teacher's Role in Computer Assisted Instructional Management. Educational Technology, 1970, 10(2), 42-45.
computer-managed instruction; teacher
- 0440 Koppitz, W. J. The Computer and Programmed Instruction. Datamation, 1963, 9(11), 50-52+.
programmed instruction; branching; hardware; IBM
- 0441 Kopstein, F. F., & Seidel, R. J. Computer-administered Instruction Versus Traditionally Administered Instruction: Economics. AV Communication Review, 1968, 16(2), 147-75.
cost; instruction; effectiveness; personnel
- 0442 Kopstein, F. F., & Seidel, R. J. Computer-administered Instruction Versus Traditionally Administered Instruction: Economics. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 327-62.
instruction; cost; effectiveness; personnel
- 0443 Kopstein, F. F., & Seidel, R. J. Computer Administered Instruction Vs. Traditionally Administered Instruction: Economics. In J. F. Feldhusen, A Position Paper on CAI Research and Development. ERIC Clearinghouse on Educational Media & Technology, Stanford University, Stanford, Calif., 1970. Pp. 26-27 (Abstract).
cost

0444-0448

- 0444 Kromhout, O. M., Hansen, D. N., & Schwarz, G. Conference on Computers in Undergraduate Science Education: A Computer-assisted and Managed Course in Physical Science. Technical Memo 23, CAI Center, Florida State University, Tallahassee, 1970.
- physics; college; multi-media; computer-managed instruction; attitude; achievement; cost; simulation; physical science; laboratory
- 0445 Krumboltz, J. D., & Weisman, R. G. The Effect of Intermittent Confirmation in Programmed Instruction. Journal of Educational Psychology, 1962, 53 (6), 250-53.
- feedback; programmed instruction
- 0446 Krumboltz, J. D., & Weisman, R. G. The Effect of Overt Versus Covert Responding to Programmed Instruction on Immediate and Delayed Retention. Journal of Educational Psychology, 1962, 53(2), 89-92.
- response; retention; programmed instruction
- 0447 Gallagher, P. D. An Investigation of Instructional Treatments and Learner Characteristics in a Computer-managed Instruction Course. Technical Report 12, CAI Center, Florida State University, Tallahassee, 1970.
- computer-managed instruction; strategy--instructional; sequence; learner; personality; anxiety; achievement; cost; attitude; learner-controlled instruction
- 0448 Gay, Lorraine R. An Investigation into the Differential Effectiveness for Males and Females, of Three CAI Treatments on Delayed Retention of Mathematical Concepts. Technical Memo 12, CAI Center, Florida State University, Tallahassee, 1969.
- retention; sex; math; presentation; junior high

0449-0453

- 0449 Geisert, P. A Comparison of the Effects of Information Mapped Learning Materials and Traditional Materials on the Learning of Concepts via the Printed Page and Computer Cathode Ray Tube. Technical Memo 24, CAI Center, Florida State University, Tallahassee, 1970.
- feedback; achievement; time; attitude; cathode ray tube; strategy--instructional
- 0450 Gelman, M. Centralized vs. Decentralized Computer Assisted Instruction Systems. Proceedings of AFIPS Spring Joint Computer Conference, 1967, 30, 413-17.
- system; cost; software; storage; centralization
- 0451 General Learning Corp. Cost Study of Educational Media Systems and Their Equipment Components, Vol. III. A Supplementary Report: Computer Assisted Instruction. In J. F. Feldhusen, A Position Paper on CAI Research & Development. ERIC Clearinghouse on Educational Media & Technology, Stanford University, Stanford, Calif., 1970. Pp. 29-31 (Abstract).
- cost; media; hardware
- 0452 Gentile, J. R. Learning Environment. Science, 1969, 163, 18.
- programmed instruction; learning
- 0453 Gerard, R. W. Computers and Education. Proceedings of AFIPS Fall Joint Computer Conference, 1965, 27 (2), 11-16.
- tutorial; time; outcomes

0454-0458

- 0454 Gerard, R. W. Shaping the Mind: Computers in Education. In Applied Science and Technological Progress. Report to the Committee on Science & Astronautics, U. S. House of Representatives, by the National Academy of Sciences. Washington, D.C.: U. S. Government Printing Office.
- teacher; overview; cost; software
- 0455 Gerard, R. W. Computer-assisted Learning: Introduction and General Considerations. Proceedings of the National Academy of Sciences, 1969, 63(3), 573-79.
- overview; cost; medicine
- 0456 Gerard, R. W. Computers in Mathematics, and Other Education. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington D. C.: National Council of Teachers of Mathematics, 1969. Pp. 1-13.
- overview; individualization; math
- 0457 Gerard, R. W. Shaping the Mind: Computers in Education. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 15-39.
- teacher; overview; cost; software
- 0458 Gilman, D. A. Comparison of Several Feedback Methods for Correcting Errors by Computer-assisted Instruction. Journal of Educational Psychology, 1969, 60 (6), 503-08.
- science; feedback; retention; error correction; college

0459-0463

0.55

Gilman, D. A., & Harvilchuck, N. The Effects of Reducing Verbal Content in Computer Assisted Instruction Programs. Paper presented at Department of Audiovisual Instruction/NEA meeting, Portland, Oregon, 1969. Available from the School of Education, Indiana State University, Terre Haute, 1969.

time; verbal ability; comprehension; readability; ability

0460

Morgan, R. M. A Computer Utility for Educational Systems. In The Application of Technology to Education, Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969. Pp. 5-7.

funding; U. S. O. E.; U. S. Office of Education; feasibility; applications; CUES; centralization; problem solving; vocational education; cost; hardware

0461

Gilman, D. A., & Moreau, Nancy Ann. Effects of Reducing Verbal Content in Computer-assisted Instruction. AV Communication Review, 1969, 17(3), 291-98.

ability; comprehension; readability; time

0462

Giunti, F. E. An Evaluation of CAI in Basic Electronics Training. Paper presented to Association for the Development of Instructional Systems convention, State University of New York, Stony Brook, February, 1971.

electronics; training; Army; achievement; time; aptitude; attitude

0463

Glaser, R. Some Research Problems in Automated Instruction: Instructional Programming and Subject-matter Structure. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 67-85.

programming; response; research; automated instruction

0464-0470

- 0464 Glaser, R. Discussion--Educational Technology: New Myths and Old Realities. Harvard Educational Review, 1968, 38(4), 739-46.
individualization; innovation
- 0465 Goldbeck, R. A., & Campbell, V. N. The Effects of Response Mode and Response Difficulty on Programmed Learning. Journal of Educational Psychology, 1962, 53(3), 110-18.
response; cueing; programmed instruction
- 0466 Goldberg, A. L., Tondow, M., & Bushnell, D. D. The Computer in Education--Some Examples. IEEE Proceedings, 1966, 54(12), 1656-62.
student records; Palo Alto; math; high school; science; business education; counseling; applications
- 0467 Goodlad, J. I. The Future of Learning and Teaching. AV Communication Review, 1968, 16(1), 5-15.
teacher; cost; instruction; future
- 0468 Goodlad, J. I. Computers and the Schools in Modern Society. Proceedings of the National Academy of Sciences, 1969, 63(3), 595-603.
efficiency; availability; teacher; applications
- 0469 Gordon, R. M. Computer-assisted Instruction: Some Operational Aspects. Datamation, 1969, 15(1), 37+39+42-44.
hardware; software; language; cost; operational aspects
- 0470 Gourley, Mary F. The Harmonic Oscillator in APL. American Journal of Physics, 1970, 38(4), 529.
mechanics; college; APL; physics

0471-0476

- 0471 Greenberg, H. J. Reaction Paper. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 45-49.
- math; drill-and-practice; tutorial; testing; diagnostic tool
- 0472 Gropper, G. L., & Kress, G. C., Jr. Individualizing Instruction through Pacing Procedures. AV Communication Review, 1965, 13(2), 165-82.
- individualization; pacing; ability; programmed instruction; science; junior high
- 0473 Grubb, R. E. Learner-controlled Statistics. Programmed Learning, 1968, 4, 38-42.
- statistics; learner-controlled instruction
- 0474 Grubb, R. E. Learner-controlled Statistics. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 167-71.
- statistics; college; learner-controlled instruction; IBM/1500
- 0475 Grubb, R. E. A Study of Differential Treatments in the Learning of Elementary Statistics. Paper presented at Department of Audiovisual Instruction/NEA convention, Portland, Oregon, 1969.
- statistics; learner-controlled instruction; achievement
- 0476 Gwynn, J. W. Time-sharing in a Homogeneous-generalized Environment. Paper presented at AEDS convention, Portland, Oregon, May 6-9, 1969. (Abstract).
- time-sharing

0477-0482

- 0477 LaFrenz, D. E., & Kieren, T. E. Computers for All Students--A New Philosophy of Computer Use. School Science & Mathematics, 1969, 69, 39-41.
math; high school; CAMP; programming
- 0478 Lahey, J. F., & LaValle, P. D. An Approach to the Presentation of the Energy Budget Concept in an Introductory Physical Geography Course. In Commission on College Geography, Computer Assisted Instruction in Geography. Technical Paper No. 2, Association of American Geographers, Washington, D. C., 1969. Pp. 55-78.
geography; college; PLATO; cost; obstacles
- 0479 The Learning Business. Newsweek, 1968, 72(14), 82-84.
Xerox; RCA; IBM; General Learning Corp.; Raytheon; industry
- 0480 Learning and Curriculum Research. Proceedings, Association for the Development of Instructional Systems conference, Brooklyn College, Brooklyn, N. Y., March, 1970, 2-4, (mimeo). (Abstract).
learning; curriculum
- 0481 Lee, R. R. Information Structure in Military History: An Application of Computer-assisted Instruction. Technical Memo 14, CAI Center, Florida State University, Tallahassee, 1970.
history; college; ROTC; strategy--instructional
- 0482 Leherissey, Barbara L., O'Neil, H. F., Jr., & Hansen, D. N. Effects of Memory Support on State Anxiety and Performance in Computer-assisted Learning. Technical Memo 20, CAI Center, Florida State University, Tallahassee, 1970.
anxiety; memory; error rate; complex numbers; college; performance

0483-0489

- 0483 Lekan, Helen A. Index to Computer Assisted Instruction. (Second edition). Boston, Mass.: Sterling Institute, 1970.
curriculum
- 0484 Leonard, G. B. The Future Now. Look, 1968, 32(21), 57-60+65-68.
automation; future
- 0485 Leonard, G. B. Visiting Day 2001 A.D. Look, 1962, 32(20), 37-40&45-48.
future; dialogue system; learning
- 0486 A Lesson Designer's Guide to CATALYST and the CATALYST/PIL Interface. Dept. of Computer Science, University of Pittsburgh, Pennsylvania, 1969.
author; language; CATALYST
- 0487 Licklider, J. C. R. Preliminary Experiments in Computer-aided Teaching. In J. F. Coulson (Ed.) Programmed Learning and Computer-based Instruction. New York: John Wiley & Sons, 1962. Pp. 217-39.
drill-and-practice; German; reinforcement; prompting; response; math; cost; foreign languages; drill; strategy--instructional
- 0488 Lindsay, R. E. CAI Physics Experiments. American Journal of Physics, 1970, 38(3), 337-47.
physics; college; experiments; simulation
- 0489 Lindvall, C. M., & Bolvin, J. O. The Role of the Teacher in Individually Prescribed Instruction. Educational Technology, 1970, 10(2), 37-41.
individualization; teacher; individually prescribed instruction

0490-0494

- 0490 Lippert, H., & McMurchie, T. APL. Proceedings, Association for the Development of Instructional Systems conference, Brooklyn College, Brooklyn, N. Y., March, 1970, 20-22, (mimeo). (Abstract).
APL II; language
- 0491 Longo, A. A. The Implementation of Computer Assisted Instruction in U.S. Army Basic Electronics Training: Follow-up of a Feasibility Study. TR-69-1, Army Signal Center and School, Fort Monmouth, N. J., 1969.
electronics; Army; effectiveness; instruction; achievement; time; implementation; attitude
- 0492 Longo, A. A., & Cieri, V. P. The Feasibility of Computer Assisted Instruction in U.S. Army Basic Electronics Training. Report summary. CAI Center, Army Signal Center and School, Fort Monmouth, N. J.
feasibility; electronics; effectiveness; achievement; time; cost; ability
- 0493 Lorton, P., Jr., & Slimick, J. Computer Based Instruction in Computer Programming--A Symbol Manipulation--List Processing Approach. Proceedings of AFIPS Fall Joint Computer Conference, 1969, 35, 535-44.
programming; high school; disadvantaged; hardware; software; strategy--instructional
- 0494 Loughary, J. W. The Computer-assisted Counselor. NEA Journal, 1967, 56(2), 22-24.
counseling

0495-0499

- 0495 Love, W. P. Individual Versus Paired Learning of an Abstract Algebra Presented by Computer Assisted Instruction. Technical Report 5, CAI Center, Florida State University, Tallahassee, 1969.
paired learning; achievement; curriculum development; Boolean algebra; confidence; ability; attitude; high school
- 0496 Lower, S. K. Audio-tutorial and CAI Aids. Journal of Chemical Education, 1970, 47(2), 143-46.
chemistry; college; problem solving; tutorial; audio
- 0497 Lublin, Shirley C. Reinforcement Schedules, Scholastic Aptitude, Autonomy Need, & Achievement in a Programmed Course. Journal of Educational Psychology, 1965, 56(6), 295-302.
programmed instruction; reinforcement; aptitude; autonomy need; achievement
- 0498 Luehrmann, A. The Square Well in Quantum Mechanics. American Journal of Physics, 1967, 35(3), 275-80.
quantum mechanics; sequence; curriculum
- 0499 Luehrmann, A. Dartmouth's Time-share System: History, Impact, & Curriculum Activities. In North Carolina Educational Computing Service Symposium Proceedings, Computers in Undergraduate Curricula. Raleigh, N. C., Nov., 1969. Pp. 32-39.
time-sharing; high school; college; cost; drill-and-practice; Spanish; climatology; social sciences; sciences; physics; Dartmouth; learner; project; overview

0500-0504

- 0500 Lumsdaine, A. A. Some Theoretical and Practical Problems in Programmed Instruction. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Sons, 1962. Pp. 134-51.
- programmed instruction; reinforcement theory; objectives; theory; obstacles
- 0501 Lyon, G., & Zinn, K. L. Some Procedural Language Elements Useful in an Instructional Environment. In J. Annett & J. Duke (Eds.), Proceedings, Seminar on Computer Based Learning Systems, University of Leeds, Sept. 8-12, 1969. Pp. 18-25.
- language; PL/1; APL; CATO; BASIC; PIL; STRINGCOMP, input/output
- 0502 LYRIC. Computer-assisted Instruction Systems, Los Angeles, Calif. (1p.).
- language; LYRIC
- 0503 Hagerty, Nancy K. Development and Implementation of a Computer-managed Instruction System in Graduate Training. Technical Report 11, CAI Center, Florida State University, Tallahassee, 1970.
- computer-managed instruction; individualization; systems approach; curriculum development; cost; instructor-controlled learning; learner-controlled instruction; achievement; programmed instruction; graduate education; implementation; attitude
- 0504 Hall, K. Inservice Mathematics Education for Elementary School Teachers via Computer-assisted Instruction. Proceedings, Association for the Development of Instructional Systems conference, Brooklyn College, Brooklyn, N. Y., March, 1970, 25-26, (mimeo). (Abstract).
- teacher education; math; achievement; inservice education

0505-0509

- 0505 Hall, K. A., Mitzel, H. E., Suydam, Marilyn N., Riedesel, C. A., & Trueblood, C. R. Inservice Mathematics Education via Computer-assisted Instruction for Elementary School Teachers in Appalachia. Final Report, Report R-26, Computer-assisted Instruction Laboratory, Pennsylvania State University, University Park, 1970.
teacher education; math; mobile CAI; achievement; attitude; inservice education; debugging
- 0506 Hall, M. A. Up against the Software, Faculty! In North Carolina Educational Computing Services Symposium Proceedings: Computers in Undergraduate Curricula. Raleigh, N. C., Nov., 1969. Pp. 40-54.
time-sharing; social sciences; macroeconomic theory; software; economics
- 0507 Hansen, D. N. Computer Assistance with the Educational Process. Review of Educational Research, 1966, 36(5), 588-603.
theory; hardware; software; language; CATO; Coursewriter; BASIC; drill-and-practice; testing; tutorial; simulation; natural language; bibliography; literature review
- 0508 Hansen, D. N. An Investigation of Computer-based Science Testing. In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Semiannual Progress Report, Dec. 31, 1967. CAI Center, Florida State University, Tallahassee, 1968.
testing; cost; science; attitude
- 0509 Hansen, D. N. Computer Applications in School Psychology. Technical Memo 3, CAI Center, Florida State University, Tallahassee, 1969.
school psychology; testing; personality; individualization; diagnostic tool

0510-0514

- 0510 Hansen, D. Computer-assisted Instruction and the Individualization Process. In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Annual Progress Report--Jan. 1 thru Dec. 31, 1968. Report 7, CAI Center, Florida State University, Tallahassee, 1969. Pp. 139-52.
- individualization; feedback; retention; evaluation; personality; attitude
- 0511 Hansen, D. N. Current Issues in CAI. Technical Memo 2, CAI Center, Florida State University, Tallahassee, 1969.
- individualization; strategy--instructional; learner-controlled instruction; current issues
- 0512 Hansen, D. N. Development Processes in CAI: Problems, Techniques, and Implications. In J. Annett & J. Duke (Eds.), Proceedings, Seminar on Computer Based Learning Systems, University of Leeds, Sept. 8-12, 1969. Pp. 36-49.
- learning model; curriculum development; physics; strategy--instructional; systems approach; personnel; games; simulation; obstacles
- 0513 Hansen, D. N. Current Research Development in Computer-assisted Instruction. Technical Memo 17, CAI Center, Florida State University, Tallahassee, 1970.
- strategy--instructional; strategy--learning; learning; individualization; counseling; research & development; literature review
- 0514 Hansen, D. N. Development of CAI Curriculum. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 67-80.
- curriculum development; systems analysis; task analysis; personnel; cost

0515-0519

- 0515 Hansen, D. N. Development of CAI Mathematics Curriculum. In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Annual Progress Report--Jan. 1 thru Dec. 31, 1968. Report No. 7. CAI Center, Florida State University, Tallahassee, 1969. Pp. 119-38.
- curriculum development; task analysis; personnel; cost; math
- 0516 Hansen, D. N. Development Processes in CAI: Problems, Techniques, and Implications. Technical Memo 11, CAI Center, Florida State University, Tallahassee, 1969.
- learning model; curriculum development; physics; strategy--instructional; systems approach; personnel; games; simulation; obstacles
- 0517 Hansen, D. N. An Investigation of Computer-based Science Testing. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 209-26.
- testing; cost; science; attitude
- 0518 Hansen, D. N. The Role of Computers in Education during the 70's. Technical Memo 15, CAI Center, Florida State University, Tallahassee, 1970.
- management system--information; computation; administration; computer-managed instruction; simulation; cost; personnel; training; applications
- 0519 Hansen, D. N., & Dick, W. The Data World of CAI. Technical Memo 8, CAI Center, Florida State University, Tallahassee, 1969.
- data analysis; student records; input/output; response

0520-0523

- 0520 Hansen, D. N., & Dick, W. Memory Factors in Computer-controlled Maintenance Training. In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Annual Progress Report--Jan. 1 thru Dec. 31, 1968. Report 7, CAI Center, Florida State University, Tallahassee, 1969. Pp. 50-73.
- memory; electronics; training; strategy--instructional; practice
- 0521 Hansen, D. N., Dick, W., & Lippert, H. T. Research and Implementation of Collegiate Instruction of Physics via Computer-assisted Instruction. Technical Report 3, CAI Center, Florida State University, Tallahassee, 1968.
- physics; college; effectiveness; cost; curriculum development; systems approach; personnel; multi-media; achievement; personality; anxiety; bibliography; research; implementation; attitude
- 0522 Hansen, D. N., Dick, W., & Lippert, H. T. (Eds.) Annual Progress Report--Jan. 1 thru Dec. 31, 1968. Report 7, CAI Center, Florida State University, Tallahassee, 1969.
- THEMIS; Wakulla County, Florida; Florida State University
- 0523 Hansen, D. N., Dick, W., & Lippert, H. T. Institute in Computer-related Multi-media Instruction for Administrators and Faculty in Junior Colleges and Universities. Technical Memo 6, CAI Center, Florida State University, Tallahassee, 1969.
- training; evaluation; multi-media; instruction; graduate school

0524-0528

- 0524 Hansen, D. N., Dick, W., & Lippert, H. T. Terminal Program Report for the Institute in Education Media at the Florida State University. In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Annual Progress Report--Jan. 1 thru Dec. 31, 1968. Report 7, CAI Center, Florida State University, Tallahassee, 1969. Pp. 205-18.
- personnel; training; evaluation; Florida State University; Institute in Education Media
- 0525 Hansen, D., Dick, W., & Lippert, H. THEMIS Project. In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Annual Progress Report--Jan. 1 thru Dec. 31, 1968. Report 7, CAI Center, Florida State University, Tallahassee, 1969. Pp. 4-34.
- THEMIS; training; retention; personality; games; computer-managed instruction; literature review
- 0526 Hansen, D., Dick, W., & Lippert, H. Wakulla County Project. In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Annual Progress Report--Jan. 1 thru Dec. 31, 1968. Report 7, CAI Center, Florida State University, Tallahassee, 1969. Pp. 35-49.
- Wakulla County, Florida; rural; reading; math; English; cost; effectiveness
- 0527 Hansen, D. N., & Harvey, W. L. Impact of CAI on Classroom Teachers. Technical Memo 10, CAI Center, Florida State University, Tallahassee, 1969.
- teacher; teacher education
- 0528 Hansen, D. N., & Harvey, W. L. Impact of CAI on Classroom Teachers. Educational Technology, 1970, 10(2), 46-48.
- teacher; teacher education

0529-0533

- 0529 Hansen, D. N., & Majer, K. S. Educational Applications of Instructional Computer Systems. Technical Report 2, CAI Center, Florida State University, Tallahassee, 1969.
- applications; installations; Instructional Management System; multi-media; performance; programmed instruction; branching; personality; anxiety; aptitude; systems approach; simulation; counseling; overview; personnel; bibliography; individualization; management system--instructional
- 0530 Hansen, D. N., & O'Neil, H. F., Jr. Empirical Investigations Versus Anecdotal Observations of Computer-assisted Instruction. In D. N. Hansen, W. Dick, & H. T. Lipperl (Eds.), Annual Progress Report--Jan. 1 thru Dec. 31, 1968. Report 7, CAI Center, Florida State University, Tallahassee, 1969. Pp. 74-76.
- anxiety
- 0531 Hansen, D. N., Wright, Betty J., & Hogshead, G. W. A Guide to Running a Study in the Computer-assisted Instruction Center. Technical Memo 7, CAI Center, Florida State University, Tallahassee, 1969.
- guidelines; personnel; research
- 0532 Hansen, D. N., Wright, Betty J., & Johnson, Barbara F. Existing CAI Curriculum Materials at the FSU-CAI Center. Technical Memo 13, CAI Center, Florida State University. Tallahassee, 1970.
- Florida State University; curriculum
- 0533 Hansen, J. B., & Bunderson, C. V. The Interaction of Associative Memory and General Reasoning with Availability and Complexity of Examples in a Computer-assisted Instruction Task. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 63 (Abstract).
- associative memory; complexity, availability; reasoning; ability

0534-0539

- 0534 Harless, W. Genesys--Computer Generated Simulations of the Clinical Encounter. Proceedings, Association for the Development of Instructional Systems conference, Brooklyn College, Brooklyn, N. Y., March, 1970, 14-15, (mimeo). (Abstract).
simulation; Genesys; medicine
- 0535 Harvey, R. B. Grade Seven and a Computer. School Science & Mathematics, 1968, 68(1), 91-94.
programming; junior high
- 0536 Hauser, N. Computers in Industrial Engineering Design Education. Journal of Industrial Engineering, 1967, 18(1), 86-89.
industrial engineering; simulation
- 0537 Hedl, J. J., Jr. A Systematic Investigation of Three Facets of Programmed Instruction: Tutorial Assistance of Study, Explanation of Incorrect Answers, and the Spacing of High-difficulty Frames. Technical Report 4, CAI Center, Florida State University, Tallahassee, 1969.
programmed instruction; tutorial; feedback; paired learning; educational psychology; collene
- 0538 Heimer, R. T. (Ed.) Computer-assisted Instruction and the Teaching of Mathematics. Proceedings of a conference on Computer-assisted Instruction, Pennsylvania State University, University Park, Sept. 24-26, 1968. Washington, D. C.: National Council of Teachers of Mathematics, 1969.
hardware; software; math; cost
- 0539 Heimer, R. T., & Lotties, J. J. A Theoretical Framework for the Study of Instruction in Math. In F. C. Johnson (Ed.), Paper and Symposia Abstracts: 1971 Annual Meeting. Washington, D. C.: American Educational Research Association, 1971. P. 96 (Abstract).
math; instruction theory; strategy--instructional

0540-0545

- 0540 Herbert, E. Technology for Education. International Science & Technology, 1967, 68, 29-49.
teacher; programmed instruction; learning; individualization; literature review
- 0541 Herman, D. Now It's Hard to Keep Them Away from the Terminals when It's Not Their Turn. Educational Media, 1969, 1(5), 4-6.
disadvantaged; arithmetic; English; Cincinnati; elementary grades
- 0542 Hernandez, I., & Gilman, D. A. A Comparison of the Effectiveness of Several Feedback Modes for Correcting Errors in Computer-assisted Instruction. School of Education, Indiana State University, Terre Haute, 1969.
feedback; science; college; effectiveness; error correction
- 0543 Herrman, J. K., & Kane, Jean. Hardware for Computer-assisted Instruction. Paper prepared for Institute for Computer-assisted Instruction Seminar, Jan. 27-29, 1969, Computer Applications Inc.
hardware; input/output; student records; strategy--instructional; terminal
- 0544 Hershberger, W. Self-evaluational Responding and Typographical Cueing: Techniques for Programming Self-instructional Reading Materials. Journal of Educational Psychology, 1964, 55(5), 288-96.
programmed instruction; response; cueing; ability; evaluation; self-instruction; reading
- 0545 Hewlett-Packard Time-shared 'BASIC' Systems. Hewlett-Packard, Palo Alto, Calif. (Booklet).
Hewlett-Packard; hardware; time sharing; BASIC

0546-0551

- 0546 High Marks in the Teaching Business. Business Week, 1970, No. 2122, 32+.
Westinghouse Learning Corp.; PLAN; computer-managed instruction
- 0547 Hobson, E. N. Empirical Development of a Computer Managed Instruction System for the Florida State University Model for the Preparation of Elementary School Teachers. Technical Report 8, CAI Center, Florida State University, Tallahassee, 1970.
teacher education; computer-managed instruction; individualization; student records; Florida State University
- 0548 Hofstetter, A. N. Assessment of the Influence of Computer Assisted Instruction on Mathematics Methods, Materials, and Equipment in Teaching Grades One through Eight. Appalachia Educational Laboratory, Charlestown, W. Va., 1970.
teacher education; math; tutorial; inservice education
- 0549 Holzman, S. CAI: Wave of the Future. Scholastic Teacher, 1968, 8(12), 20.
overview; project; future; obstacles
- 0550 Honeywell Adds CAI. Educational Technology, 1970, 10(4), 59.
Honeywell; language
- 0551 Honeywell in Education: How Educators are Using the Computer to Improve Educational Quality. Honeywell Electronic Data Processing. (Brochure).
problem solving; author; language; tutorial

0552-0557

- 0552 Honeywell to Field Test CAI in Louisiana. Automated Education Letter, 1969, 4(5), 6-7.
Honeywell; teacher; author; Louisiana
- 0553 Honeywell's Author Language System for Computer-assisted Instruction. Education Application Summary B27, Honeywell Electronic Data Processing.
author; language; Honeywell
- 0554 How Do RCA Computer Systems Help Education? RCA Instructional Systems, Palo Alto, Calif. (Booklet IS-1098-#1-069).
RCA; curriculum; project; funding; hardware
- 0555 How to Start Up CAI on Borrowed Computers. School Management, 1969 (Aug.).
Cincinnati; cost; back-up time
- 0556 Howard, J. A., & Wood, R. C. An On-line System for Computer-assisted Instruction. Engineering Education, 1971, 61(4), 343-44.
electrical engineering; college; problem solving; cost; laboratory; multi-media; hardware
- 0557 Huke, R. E. Climate Types: Recognition and Classification. In Commission on College Geography, Computer Assisted Instruction in Geography. Technical Paper No. 2, Association of American Geographers, Washington, D. C., 1969. Pp. 33-54.
geography; college; strategy--instructional; hardware; climatology; attitude

0558-0563

- 0558 Huke, R. E., Fielding, G. J., & Ramage, K. W. Using Computers for Instruction. In Commission on College Geography, Computer Assisted Instruction in Geography. Technical Paper No. 2, Association of American Geographers, Washington, D. C., 1969. Pp. 1-7.
- definition; geography; college; language; achievement
- 0559 Hullfish, W. R. Use of Drill Programs to Teach Abstract Concepts by Computer-assisted Instruction. Audiovisual Instruction, 1971, 16(2), 35-36.
- drill-and-practice; APL; analogy concept
- 0560 Hunt, E., & Zosel, Mary. WRITEACOURSE: An Educational Programming Language. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 305-16.
- language; WRITEACOURSE
- 0561 Hunter, W. L. Newsletter of the Association for Development of Instructional Systems, March, 1971, 6-7.
- medicine
- 0562 Huskey, H. D. Automatic Computers and Teaching Machines. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 257-72.
- language
- 0563 Nelson, T. H. No More Teachers' Dirty Looks. Computer Decisions, 1970, 2(9), 16-23.
- education; learner-controlled instruction; learning--computer-controlled; dialogue system

0564-0569

- 0564 The New B.M.O.C.s: Big Machines on Campus. Time, 1967, 89(20), 98.
drill; higher education; cost
- 0565 Newsom, C. V. The Computer in Education. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 134-44.
multi-media; future; overview; applications
- 0566 New System Cuts Cost of CAI in Math. Educational Technology, 1970, 10(4), 59.
Hewlett-Packard; drill-and-practice; math; cost; elementary grades
- 0567 Newton, R. H. The Creation of Remedial Courses for CAI. Computer Assisted Instruction Laboratory, National Technical Institute for the Deaf, Rochester Institute of Technology, Rochester, N. Y., 1969.
deaf; programming; branching; task analysis; curriculum development
- 0568 Newton, R. H. M.D.S.: A Unique Project in Computer-assisted Mathematics. Computer Assisted Instruction Laboratory, National Technical Institute for the Deaf, Rochester Institute of Technology, Rochester, N. Y., 1970.
deaf; math; high school; curriculum development; programmer; student records; proctor; remedial material; diagnostic tool
- 0569 New Tools--Education's Emerging Technology. Progressive Architecture, 1968, 49(4), 134-45.
individualization; dial-access system; drill; funding; effectiveness; architectural considerations

0570-0574

- 0570 Nunley, R. E., Sabol, J. S., & Youngman, C. E. A Map that Comes Alive: An Electric Analog Computer. In Commission on College Geography, Computer Assisted Instruction in Geography. Technical Paper No. 2, Association of American Geographers, Washington, D. C., 1969. Pp. 151-63.
- analog computer; maps; geography; college
- 0571 Yeates, M. H., & Nicholson, T. G. Spatial Association and Its Measurement. In Commission on College Geography, Computer Assisted Instruction in Geography. Technical Paper No. 2, Association of American Geographers, Washington, D. C., 1969. Pp. 115-39.
- geography; college; spatial association; APL; programming; curriculum
- 0572 Zinn, K. L. Survey of Materials Prepared for Instruction or Instruction Research via On-Line Computer Systems. Center for Research on Learning and Teaching, University of Michigan, Ann Arbor, 1966, (mimeo).
- curriculum; elementary grades; junior high; high school; college; time
- 0573 Zinn, K. L. Computer Assistance for Instruction: A Review of Systems and Projects. In D. D. Bushnell & D. W. Allen (Eds.), The Computer in American Education. New York: John Wiley & Sons, Inc., 1967. Pp. 77-107.
- systems; language; author; student records; response; project
- 0574 Zinn, K. L. Computer Technology for Teaching and Research on Instruction. Review of Educational Research, 1967, 37(5), 618-34.
- literature review; drill; tutorial; dialogue system; simulation; problem solving; computation; feedback; sequence; strategy--instructional; language; bibliography

0575-0580

- 0575 Zinn, K. L. A Basic Reference Shelf on Interactive Use of Computers for Instruction. Series One Paper, ERIC Clearinghouse on Educational Media & Technology, Stanford University, Stanford, Calif., 1968.
overview; literature review; tutorial; dialogue system; drill-and-practice; information sources
- 0576 Zinn, K. L. Instructional Uses of Interactive Computer Systems. Datamation, 1968, 14(9), 22-27.
overview; cost; drill; tutorial; hardware; software; simulation; games; dialogue system
- 0577 Zinn, K. L. Programming Conversational Use of Computers for Instruction. Proceedings of the 23rd National ACM Conference, 1968, 85-92.
language
- 0578 Zinn, K. L. A Comparative Study of Languages for Programming Interactive Use of Computers in Educations (Excerpts of report). In J. Annett & J. Duke (Eds.), Proceedings, Seminar on Computer Based Learning Systems, University of Leeds, Sept. 8-12, 1969. Pp. 26-33.
language; understandability; limitations
- 0579 Zinn, K. L. File of Sample Computer Programs for Instruction. Automated Education Letter, 1969, 4(5), 3-6.
language; programming
- 0580 Zinn, K. L. Implications of Programming Languages for Mathematics Instruction Using Computers. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 81-94.
author-controlled instruction; simulation; games; math; problem solving; language

0581-0586

- 0581 Zinn, K. L. Programming Conversational Use of Computers for Instruction. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 253-68.
- language
- 0582 Zinn, K. L. Guidelines for Instructional Use of Computers. SIGCAI Interface, 1970, 4(2), 2-9.
- cost; software; personnel; guidelines
- 0583 Zinn, K. L. Instructional Uses of Interactive Computer Systems. In J. F. Feldhusen, A Position Paper on CAI Research and Development. Series Two Paper, ERIC Clearinghouse on Educational Media & Technology, Stanford University, Stanford, Calif., 1970. Pp. 15-16 (Abstract).
- simulation; acceptance; applications
- 0584 Zinn, K. L., & McClintock, S. A Guide to the Literature on Interactive Use of Computers for Instruction. (2nd Ed.) Series One Paper, ERIC Clearinghouse on Educational Media & Technology, Stanford University, Stanford, Calif., 1970.
- overview; information sources; software; applications
- 0585 Oettinger, A. G. The Use of Computers in Science. Scientific American, 1966, 215(3), 161-66+.
- simulation; science
- 0586 Oettinger, A. G. The Myths of Educational Technology. Saturday Review, 1968 (May 18), 51, 76-77+.
- systems approach; individualization; hardware; criticism

0587-0592

- 0587 Oettinger, A., & Marks, Sema. Educational Technology: New Myths and Old Realities. Harvard Educational Review, 1968, 38(4), 697-717.
individualization; innovation; Stanford University; criticism
- 0588 Oettinger, A. G., & Marks, Sema. Reply to Discussion--Educational Technology: New Myths & Old Realities. Harvard Educational Review, 1968, 38(4), 751-55.
innovation; individualization
- 0589 Oettinger, A., & Marks, S. Educational Technology: New Myths and Old Realities. In J. F. Feldhusen, A Position Paper on CAI Research and Development. ERIC Clearinghouse on Educational Media & Technology, Stanford University, Stanford, Calif., 1970. Pp. 22-26 (Abstract).
individualization
- 0590 Oliver, P., & Brooks, F. P., Jr. Evaluation of an Interactive Display System for Teaching Numerical Analysis. Proceedings of AFIPS Fall Joint Computer Conference, 1969, 35, 525-33.
graphing; math; numerical analysis; effectiveness; evaluation; interaction; system
- 0591 O'Neil, H. F., Jr. Effects of Stress on State Anxiety and Performance in Computer-assisted Learning. Technical Report 6, CAI Center, Florida State University, Tallahassee, 1970.
anxiety; learning; feedback; error rate; performance
- 0592 O'Neil, H. F., Jr., Spielberger, C. D., & Hansen, D. N. Effects of State Anxiety and Task Difficulty on Computer-assisted Learning. Journal of Educational Psychology, 1969, 60(5), 343-50.
anxiety; task difficulty

0593-0597

- 0593 O'Toole, J. F., Jr. Teaching Machines and Programmed Instruction. AV Communication Review, 1964, 12(4), 431-39.
- programmed instruction; teacher; attitude; learner
- 0594 O'Toole, J. F., Jr. Innovations in Instruction: Some Promising Directions in Higher Education. SP-2894, System Development Corp., Santa Monica, Calif., 1968.
- individualization; systems approach; innovation; higher education; obstacles
- 0595 Wastler, B. Jean. (Ed.) Project REFLECT: Computer-assisted Instruction Project: Annual Report. Montgomery County Public Schools, Rockville, Maryland, 1969.
- REFLECT; personnel; training; programmer; project; cost; curriculum development; strategy--instructional; chemistry; high school; physics; science; junior high; math; attitude; installation
- 0596 Weizenbaum, J. ELIZA--A Computer Program for the Study of Natural Language Communication between Man and Machine. Communications of the ACM, 1966, 9(1), 36-45.
- ELIZA; natural language; language; programming
- 0597 Weizenbaum, J. Contextual Understanding by Computers. Communications of the ACM, 1967, 10(8), 474-80.
- natural language; ELIZA; understanding

0598-0603

- 0598 Weneser, Betty. An Instructional Paradigm and Its Applications to a CAI Laboratory for Physical Anthropology. Proceedings, Association for the Development of Instructional System conference, Brooklyn College, Brooklyn, N. Y., March, 1970, 6, (mimeo). (Abstract).
anthropology; instruction model
- 0599 What is Instructional Model Prototypes Attainable in Computerized Teaching? HumRRO Division No. 1, Alexandria, Va. (Pamphlet).
IMPACT; project; objectives; instruction; model
- 0600 What are Math Strands? Computer Curriculum Corp., Palo Alto, Calif. (Brochure).
drill-and-practice; math; strand; elementary grades
- 0601 Williams, Joanna P. Comparison of Several Response Modes in a Review Program. Journal of Educational Psychology, 1963, 54(5), 253-60.
response; programmed instruction
- 0602 Williams, T. G., & Frye, C. H. An Instructional Application of Computer Graphics. Educational Technology, 1968, 8(11), 5-10.
hardware; input; graphics; terminal; Graphic Tablet Display console; RAND tablet; language; PLANIT; interface
- 0603 Wittrock, M. C. Response Mode in the Programming of Kinetic Molecular Theory Concepts. Journal of Educational Psychology, 1963, 54(2), 89-93.
programmed instruction; response; kinetic molecular theory; retention; ability; elementary grades

0604-0609

- 0604 Wodtke, K. H. Educational Requirements for a Student-subject Matter Interface. Proceedings of AFIPS Spring Joint Computer Conference, 1967, 30, 403-11.
interface; response; ability; age; branching; instruction; objectives; limitations; instructional objectives; individualization
- 0605 Writing Style. Electronics, 1967, 40(6), 50.
input/output; graphics; terminal
- 0606 Wye, R. E. Reaction Paper. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 57-64.
hardware; cost; effectiveness; language; personnel; audio; terminal
- 0607 Packer, R. E. Computers, Education, and the Government. Computers and Automation, 1965, 14(3), 14-17.
automated instruction; federal government; funding
- 0608 Pask, G. Computer Assisted Learning and Teaching. In J. Annett & J. Duke (Eds.), Proceedings, Seminar on Computer Based Learning Systems, University of Leeds, Sept. 8-12, 1969. Pp. 50-66.
strategy--instructional; systems; overview; learning model; teaching model; evaluation; theory
- 0609 Payne, D., & Ruderman, R. Rationale and Description of an Interactive Computer-based System for Classification & Instruction of Problem Solving Skills. Proceedings, Association for the Development of Instructional Systems conference, Brooklyn College, Brooklyn, N. Y., March, 1970, 18-19, (mimeo). (Abstract).
problem solving; behavior; rationale; curriculum

0610-0616

- 0610 Pembroke, B. R. Computers in the Classroom. Scholastic Teacher, 1968, 8(12), 14-15.
PACE; attitude; deaf; blind; disadvantaged;
social studies; high school; obstacles
- 0611 Pfaltzgraff, D. J. Analog Simulation of the Bouncing-ball Problem. American Journal of Physics, 1969, 37(10), 1008-13.
simulation; physics; bouncing ball problem
- 0612 Pike, A. H. Computers Can Help in Accounting Instruction. Business Education World, 1963, 43(6), 23+.
accounting; games; business education
- 0613 PILOT User Guide: A Conversational Computer Language. Office of Information Systems, University of California Medical Center, San Francisco, 1968.
PILOT; language; natural language; dialogue system; author; programming
- 0614 PILOT 1.5. Computer Center, University of California, San Francisco.
interaction; PILOT; author; language
- 0615 Pilot, an Interactive Computer Language. Office of Information Systems (76-U), University of California, San Francisco.
medicine; author; language; PILOT; programming
- 0616 PLANIT. System Development Corp., Santa Monica, Calif., Corporate Communication 44-4(269).
PLANIT; language; calculation

0617-0621

- 0617 Pressey, S. L. Teaching Machine (and Learning Theory) Crisis. Journal of Applied Psychology, 1963, 47(1), 1-6.
autoinstruction; learning theory; drill
- 0618 Prince, J. D. A Practitioner's Report--Results of Two Years of Computer Assisted Instruction in Drill-and-Practice Mathematics. Progress Report 3, McComb Municipal Separate School District, McComb, Miss., 1969.
achievement; teacher; ability; disadvantaged; drill-and-practice; arithmetic; hardware; personnel; retention; elementary grades
- 0619 A Programming Language for Education. UNIVAC, A Sperry Rand Div., Federal Systems Div., CSD-Educational Systems Programming, St. Paul, Minn., Document EDS 101. (Booklet).
language; COPI; UNIVAC; branching; hardware
- 0620 Vandeportaele, D. D. Computer Applications in Sociology. In North Carolina Educational Computing Service Symposium Proceedings: Computers in Undergraduate Curricula. Raleigh, N. C., Nov., 1969. Pp. 7-23.
sociology; inquiry; interaction
- 0621 van der Aa, H. J. Computers and Education: An International Bibliography on Computers and Education. New York: Science Associates/International Inc., 1970.
bibliography

0622-0627

- 0622 Vierling, A. F., Vierling, J. S., & Kropf, J. F. Computer Assisted Learning. New York: Hafner Publishing Co., 1969.
language; BASIC; programming; time-sharing; hardware; teacher; physics; chemistry; engineering education; glossary; learner; curriculum; college
- 0623 Vonhof, P. W. Computer-assisted Authoring for a 1500 CAI Instructional System. Computer Assisted Instruction Laboratory, National Technical Institute for the Deaf, Rochester Institute of Technology, Rochester, N. Y.
author; system; Coursewriter; IBM/1500
- 0624 Vonhof, P. In Minutes of the Semi-annual Meeting of the Association for the Development of Instructional Systems, held at Brooklyn College, March, 1970, 11-15.
graphics; IBM/1500
- 0625 Sax, Suzanne E. Report of Study Results. IBM Corp., San Jose, Calif., 1969, (mimeo).
adult education; data processing; attitude
- 0626 Schrag, P. Kids, Computers, and Corporations. Saturday Review, 1967, 50(20), 78-80+.
individualization; overview; software; industry; criticism
- 0627 Schure, A. A System for Individualizing and Optimizing Learning through Computer Management of the Educational Process. New York Institute of Technology, Old Westbury.
computer-managed instruction; learning; optimization

0628-0633

- 0628 Schure, A. Educational Escalation through Systems Analysis. Audiovisual Instruction, 1965, 10, 371-77.
systems approach; multi-media; strategy--learning; learning
- 0629 Schutz, R. E. CMI: No Closer than the Moon. Science, 1969, 163, 1009-10.
computer-managed instruction; cost; obstacles
- 0630 Schwartz, H. A., & Long, H. S. Instruction by Computer. Datamation, 1966 (Dec.), 12, 73-75+.
programmed instruction; IBM 1440 system; Course-writer; author; student records; debugging; programming
- 0631 Schwarz, G., Kromhout, O. M., & Edwards, S. Computers in Physics Instruction. Physics Today, 1969, 22(9), 40-49.
physics; computation; simulation; physics; cost; projects
- 0632 SDC's PLANIT Language. Newsletter of the Association for the Development of Instructional Systems, June, 1970, 11-12.
PLANIT; SDC
- 0633 Sears, Pauline S., & Feldman, D. H. Changes in Young Children's Classroom Behavior after a Year of Computer-assisted Instruction: An Exploratory Study. Research Memo 31, Center for Research & Development in Teaching, Stanford University, Stanford, Calif., 1968.
behavior; ability; achievement; math; reading; elementary grades

0634-0638

- 0634 Sedelow, Sally Y. Computer Education for the Humanist. In North Carolina Educational Computing Service Symposium Proceedings, Computers in Undergraduate Curricula. Raleigh, N. C., Nov., 1969. Pp. 24-31.
humanities
- 0635 Seidel, R. J. Computers in Education: The Copernican Revolution in Education Systems. HumRRO Professional paper 16-69, George Washington University, Alexandria, Va., 1969.
strategy--instructional; programmed instruction; IMPACT; applications; model--educational
- 0636 Seidel, R. J. Summary: AERA Special Interest Group on Computer Aids to Instruction. Newsletter of the Association for Development of Instructional Systems, March, 1971, 10-14.
system--educational
- 0637 Seidel, R. J., & the IMPACT Staff. Project IMPACT: Computer-administered Instruction Concepts and Initial Development. Technical Report 69-3. HumRRO, George Washington University, Alexandria, Va., 1969.
IMPACT; decision rules; hardware; software; individualization; language; behavior; curriculum
- 0638 Seidel, R. J., & Kopstein, F. F. A General Systems Approach to the Development and Maintenance of Optimal Learning Conditions. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 119-39.
systems approach; research tool; decision rules; learning; optimization

0639-0644

- 0639 Seidel, R. J., & Kopstein, F. F. Industry, Government and Education: Whither or Wither CAI? In J. Annett & J. Duke (Eds.), Proceedings, Seminar on Computer Based Learning Systems, University of Leeds, Sept. 8-12, 1969. Pp. 68-79.
- research & development; cost; funding; systems approach; industry; federal government
- 0640 Seidel, R. J., Kopstein, F. F. & Swallow, R. J. CAI: Technological Misconceptions. Science, 1970, 168, 1397-98.
- PLATO; cost; criticism
- 0641 Selected Bibliography--Computer Applications for Mathematics Education. Computer-oriented Mathematics Committee, National Council of Teachers of Mathematics, Washington, D. C., 1969.
- bibliography; math
- 0642 Senders, J. Adaptive Teaching Machines. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Sons, Inc., 1962. Pp. 129-33.
- adaptive teaching machine; error rate
- 0643 Shaplin, J. T. Computer-based Instruction and Curriculum Reform. In D. D. Bushnell & D. W. Allen (Eds.), The Computer in American Education. New York: John Wiley & Son, Inc., 1967. Pp. 36-43.
- curriculum; personnel; innovation
- 0644 Shay, C. B. Relationship of Intelligence to Step Size on a Teaching Machine Program. Journal of Educational Psychology, 1961, 52(2), 98-103.
- teaching machine; intelligence; ability; step size; Roman numerals; elementary grades

0645-0649

- 0645 Sheldon, J. W. Computer-assisted Instruction in Engineering Dynamics. Technical Memo 18, CAI Center, Florida State University, Tallahassee, 1970.
- engineering dynamics; Euler angles; attitude
- 0646 Shirer, D. L. The Use of Computers in Mathematics and Science Teaching. In North Carolina Educational Computing Service Symposium Proceedings, Computers in Undergraduate Curricula. Raleigh, N. C., Nov., 1969. Pp. 7-23.
- science; computation; simulation; physics; math; time-sharing; chemistry; tutorial; drill-and-practice; cost; efficiency
- 0647 Silberman, H. F. Characteristics of Some Recent Studies of Instructional Methods. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 13-24.
- programmed instruction; literature review; strategy--instructional
- 0648 Silberman, H. F. Self-teaching Devices and Programmed Materials. Review of Educational Research, 1962, 32(2), 179-93.
- literature review; response; effectiveness; bibliography; individualization
- 0649 Silberman, H. F. Applications of Computers in Education. SP-2909/000/01, System Development Corp., Santa Monica, Calif., 1967.
- applications; response; evaluation; research & development; management system--instructional; time-sharing; input/output; language; cost; acceptance; obstacles

0650-0654

- 0650 Silberman, H. F. Applications of Computers in Education. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 49-61.
- effectiveness; research; instruction; computer-managed instruction; obstacles; input/output; language; cost; acceptance; overview; interaction; applications
- 0651 Silberman, H. F., Coulson, J. E., Melaragno, R. J., & Estavan, D. P. Fixed Sequence vs. Branching in a Computer-based Teaching Machine. SP-195, System Development Corp., Santa Monica, Calif., 1960.
- branching; logic; high school; aptitude
- 0652 Silberman, H. F., & Filep, R. T. Information Systems Applications in Education. In C. A. Cuadra (Ed.), Annual Review of Information Science and Technology. Vol. 3. Chicago: Encyclopedia Britannica, Inc., 1968. Pp. 357-95.
- applications; overview; literature review; bibliography; management system--instructional; computer-managed instruction; research & development; interface; language; cost
- 0653 Silberman, H. F., Melaragno, R. J., Coulson, J. E., & Estavan, D. Fixed Sequence Versus Branching Autoinstructional Methods. Journal of Educational Psychology, 1961, 52(3), 166-72.
- branching; learner-controlled instruction; logic; high school
- 0654 Silvern, Gloria M., & Silvern, L. C. Computer-assisted Instruction: Specification of Attributes for CAI Programs and Programmers. Proceedings of the 21st National ACM conference, 1966, 57-62.5.
- definition; learner-centered: learner; teacher; programmer; input/output; MAESTRO; language; LYRIC; programming; hardware

0655-0659

- 0655 Silvern, G. M., & Silvern, L. C. Programmed Instruction and Computer-assisted Instruction--An Overview. IEEE Proceedings, 1966, 54(12), 1648-55.
- programmed instruction; learner-centered instruction; learner; teacher; overview; programmer; software; system
- 0656 Silvern, L. C. Programmed Instruction and Computer-assisted Instruction--How They Can Be Used Effectively in Our Training Programs. Paper presented at the National Aeronautic meeting and 3rd International Simulation & Training conference, Society of Automotive Engineers, April 26, 1967.
- training; learner-centered; programmed instruction; system model--instructional; teacher; programmer; time-sharing; learner; EYBOL; effectiveness
- 0657 Silvern, L. C. Programmed Instruction and Computer-assisted Instruction--How They Can Be Used Effectively in Our Training Programs. Technical Paper, Education & Training Consultants, Co., Los Angeles, 1967.
- training; learner-centered; programmed instruction; system model--instructional; teacher; programmer; time-sharing; EYBOL; learner
- 0658 Silvern, L. C. CAI in an Expanding Universe of Educational Methodology. In W. D. Orr(Ed.), Conversational Computers. New York: Wiley, 1968. Pp. 45-89.
- learner-centered; programmed instruction; definition; system model; learner; teacher; programmer; language; LYRIC; EYBOL; project
- 0659 Silvern, L. C. Mathematical Simulation and Graphic Plotting Using a Standard CAI Language. SIGCAI Interface, 1970, 4(3), 12-17.
- LYRIC; language; graphics; plotting; simulation; math

0660-0665

- 0660 Skinner, B. F. Teaching Machines. Science, 1958, 128, 969-77.
teaching machine; self-instruction
- 0661 Slaughter, R. E. The Educator and the Industrialist. NEA Journal, 1967, 56(2), 27-29.
software; industry
- 0662 Smith, Authella, & Gregory, C. MATHS User's Manual. Computer-assisted Instruction Laboratory, University of Texas, Austin, 1970.
strategy--instructional; language; math; college; drill; tutorial; proctor; MATHS; University of Texas
- 0663 Smith, H., & Dick, W. An Investigation of the Feasibility of Computer-assisted Academic Advisement in a Junior College Setting. In D. N. Hansen, W. Dick, & H. T. Lippert (Eds.), Annual Progress Report--Jan. 1 thru Dec. 31, 1968. CAI Center, Florida State University, Tallahassee, 1969. Pp. 88-106.
counseling; junior college; feasibility
- 0664 Spielberger, C. D. The Effects of Anxiety on Computer-assisted Instruction. Technical Report 7, CAI Center, Florida State University, Tallahassee, 1970.
anxiety; individualization; learning; performance; math; college
- 0665 Starks, D. D., Feldhusen, J. F., & Bell, N. T. Problems of Working with University Faculty and Graduate Students in CAI Programming. NSPI Journal, 1969, 8(6), 10-11+15.
programming; programmer; training; faculty; college

0666-0670

- 0666 Starkweather, J. A. A Common Language for a Variety of Conversational Programming Needs. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 269-304.

language; PILOT; programming

- 0667 Sterling, T. D., & Pollack, S. V. Use of the Computer to Teach Introductory Statistics. Communications of the ACM, 1966, 9(4), 274-75+.

statistics; simulation; calculation

- 0668 Stolurow, L. M. Defects, and Needs--SOCRATES, a Computer-based Instructional System in Theory and Research. Journal of Experimental Education, 1968, 37(1), 102-117.

SOCRATES; theory; strategy--instructional; tutorial; display; aptitude; individualization; achievement; feedback; personality; teaching-learning model; research

- 0669 Stolurow, L. M. Some Factors in the Design of Systems for Computer-assisted Instruction. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 65-93.

system design; teaching model; programming; reinforcement; learning; optimization; levels of CAI

- 0670 Stolurow, L. M. Computer Assisted Instruction. In J. F. Feldhusen, A Position Paper on CAI Research and Development. ERIC Clearinghouse on Educational Media & Technology, Stanford University, Stanford, Calif., 1970. Pp. 19-21. (Abstract).

advantages; applications; effectiveness; cost

0671-0677

- 0671 Strum, R. D., & Ward, J. R. Some Comments on Computer-assisted Instruction in Engineering Education. IEEE Transactions on Education, 1967, E-10 (1), 1-3.
engineering education; branching; interface; response; student records; cost; evaluation
- 0672 Stuckless, E. R. Planning for Individualized Instruction of Deaf Students at NTID. American Annals of the Deaf, 1969, 114(5), 868-73.
deaf; individualization
- 0673 Student Language Compiler for IBM 1130 System. (Revised) 1130-03.2.002, IBM Corp., 1968.
language; IBM/1130; learner
- 0674 Students, Executives Give On-the-air Opinion of CAI. Educational Media, 1969, 1, 10-14.
typewriter; terminal; debugging; time; evaluation; attitude; learner
- 0675 Summer School at SRI. Stanford Research Institute, Menlo Park, Calif., Sept., 1969.
learning by discovery; SRI; elementary grades
- 0676 Suppes, P. The Uses of Computers in Education. Scientific American, 1966, 215(3), 207-8+213-20.
individualization; Stanford University; drill-and-practice; arithmetic; elementary grades; tutorial; dialogue system; obstacles; applications
- 0677 Suppes, P. Computer-based Instruction. Electronic Age, 1967 (Summer).
individualization; student records; cost; drill-and-practice; obstacles

0678-0682

- 0678 Suppes, P. The Teacher and Computer-assisted Instruction. NEA Journal, 1967, 56(2), 15-17.
drill-and-practice; individualization; tutorial; dialogue system; teacher
- 0679 Suppes, P. On Using Computers to Individualize Instruction. In D. D. Bushnell & D. W. Allen (Eds.), The Computer in American Education. New York: John Wiley & Son, 1967. Pp. 11-24.
individualization; terminal; drill-and-practice; tutorial; dialogue system; stimulus; sequence; response; reinforcement; student records; obstacles
- 0680 Suppes, P. Computer Technology and the Future of Education. Phi Delta Kappan, 1968, 49(8), 420-23.
hardware; individualization; drill-and-practice; tutorial; dialogue system; dehumanization; standardization; future
- 0681 Suppes, P. Discussion--Educational Technology: New Myths and Old Realities. Harvard Educational Review, 1968, 38(4), 730-35.
individualization; Stanford University; Russian; college
- 0682 Suppes, P. Computer Technology and the Future of Education. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 41-47.
hardware; individualization; drill-and-practice; tutorial; dialogue system; dehumanization; standardization

0683-0688

- 0683 Suppes, P., Loftus, Elizabeth F., & Jerman, M. Problem-solving on a Computer-based Teletype. Technical Report 141, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1969.
- drill-and-practice; word problem; arithmetic; problem solving; teletype; difficulty level; elementary grades
- 0684 Suppes, P., & Morningstar, Mona. Computer-assisted Instruction. Science, 1969, 166, 343-50.
- drill-and-practice; tutorial; math; Russian; achievement; concept blocks; strategy--instructional; curriculum; elementary grades; college
- 0685 Sutherland, I. E. Computer Inputs and Outputs. Scientific American, 1966, 215(3), 86-96.
- input/output; light pen; hardware; cathode ray tube; CRT
- 0686 Swets, J. A. Some Possible Uses of a Small Computer as a Teaching Machine. Datamation, 1964, 10(6), 39.
- medicine
- 0687 Swets, J. A., & Feurzeig, W. Computer-aided Instruction. Science, 1965, 150, 572-76.
- Socratic system; medicine; diagnostic tool
- 0688 System Description--COACH. Applied Simulations International Inc., Washington, D. C., (mimeo).
- COACH; language; teacher; hardware

0689-0694

- 0689 Tabbutt, F. D. Computers in Chemical Education. Chemical & Engineering News, 1970, 48(3), 44-57.
cost; ELIZA; terminal; PLATO; overview; chemistry; language; simulation; programming; curriculum
- 0690 Tansey, P. J., & Unwin, D. Computers and Simulation. In P. J. Tansey & D. Unwin (Eds.), Simulation and Gaming in Education. London: Methuen Educational Ltd., 1969. Pp. 127-39.
simulation; business education; social sciences; international relations; economics; Sumerian game; elementary grades; games
- 0691 Teaching by Computer. Science News Letter, 1961, 80(16), 255.
geometry; college; MIT
- 0692 Teager, H. M. System Considerations in Real-time Computer Usage. In J. E. Coulson (Ed.), Programmed Instruction and Computer-based Instruction. New York: John Wiley & Son, 1962. Pp. 273-80.
time-sharing; cost; real-time; language; obstacles
- 0693 Teates, T., Dasenbrock, D. H., Snyder, W., & Redfield, D. D. CAI Utilization for Formative Curriculum Evaluation. Technical Report 1, Intermediate Science Curriculum Study, Dept. of Science Education, Florida State University, Tallahassee, 1970.
individualization; science; curriculum development; evaluation; student records; software; junior high
- 0694 Technology in Higher Education--The Winds of Change Blow Stronger. Publishers' Weekly, 1968, 193(2), 35-38.
college; drill-and-practice; software; higher education; programmer; curriculum development

0695-0701

- 0695 Tell it to... the Computer! Grade Teacher, 1970 (March), 87, 108-10+.
Waterford, Mich.; INDICOM; teacher; author; drill-and-practice
- 0696 Tobias, S. Teaching Machines and Programmed Instruction. AV Communication Review, 1966, 14(1), 99-109.
teacher; attitude; programmed instruction
- 0697 Tobias, S. Effect of Attitudes to Programmed Instruction and Other Media on Achievement from Programmed Materials. AV Communication Review, 1969, 17(3), 299-306.
teacher; attitude; media; achievement
- 0698 A Total Community Learning Plan! Responsive Environments Corporation, Englewood Cliffs, N. J.
talking typewriter; reading; adults; language arts
- 0699 Trezise, R. L. Report on a National Conference on Computer Applications to Learning. Educational Technology, 1970, 10(12), 60-62.
cost; hardware; software; teacher
- 0700 Umans, Shellew. Computer-assisted Instruction: New York City. In R. C. Atkinson & H. A. Wilson (Eds.), Computer-assisted Instruction: A Book of Readings. New York: Academic Press, 1969. Pp. 247-49.
New York City; overview
- 0701 Ung, M. T., & MacDonald, R. A. Application of Desktop Computers as Aids in Teaching Mathematics. IEEE Transactions on Education, 1967, E-10(2), 107-11.
math; graphing

0702-0706

- 0702 Uttal, W. R. On Conversational Interaction. In J. E. Coulson (Ed.), Programmed Learning and Computer-based Instruction. New York: John Wiley & Sons, 1962. Pp. 171-90.
- interaction; terminal; tutorial; IBM 650 RAMAC; teaching machine; stenotype; statistics; German
- 0703 Uttal, W. R. Reaction Paper. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 100-11.
- analytic geometry; college; tutorial; problem generation
- 0704 Uttal, W. R., & Pasich, T. W. A Simple Example of Generative Computer Tutoring. In R. T. Heimer (Ed.), Computer-assisted Instruction and the Teaching of Mathematics. Washington, D. C.: National Council of Teachers of Mathematics, 1969. Pp. 112-17.
- problem generation
- 0705 Suppes, P. Computer-assisted Instruction at Stanford. Technical Report No. 174, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1971.
- Stanford University; hardware; project; drill-and-practice; arithmetic; elementary grades; logic; spelling; tutorial; algebra; Russian; college; problem solving; reading
- 0706 Suppes, P. Computer-assisted Instruction in the Schools: Potentialities, Problems, Prospects. Technical Report No. 81, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1965.
- Stanford University; math; drill-and-practice; individualization; reliability; future; stimulus; deprivation; obstacles

0707-0710

- 0707 Suppes, P. Systems Analysis of Computer-assisted Instruction. In Grace J. Kelleher (Ed.), The Challenge to Systems Analysis. New York: Wiley, 1970. Pp. 98-110.
- systems analysis; hardware; storage; central processing unit; visual; audio; response; language; curriculum; teacher education; evaluation
- 0708 Jacobs, L. M. The Computer Assisted Program for the Deaf. The Deaf American, 1971, 23(10), 3-5.
- deaf; Stanford University; math; elementary grades
- 0709 Fishman, Elizabeth J., Keller, L., & Atkinson, R. C. Massed versus Distributed Practice in Computerized Spelling Drills. Technical Report No. 117, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1967.
- drill; spelling; practice; retention; elementary grades
- 0710 Suppes, P., Hyman, L., & Jerman, M. Linear Structural Models for Response and Latency Performance in Arithmetic on Computer-controlled Terminals. Technical Report No. 100, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1966.
- learning theory; arithmetic; concept block; drill-and-practice; error probability; latency; elementary grades

0711-0714

- 0711 Suppes, P., Hyman, L., & Jerman, M. Linear Structural Models for Response and Latency Performance in Arithmetic on Computer-controlled Terminals. In J. P. Hill (Ed.), Minnesota Symposia on Child Psychology. Minneapolis: University of Minnesota Press, 1967. Pp. 160-200.
- learning theory; arithmetic; concept block; drill-and-practice; error probability; latency; elementary grades
- 0712 Suppes, P., Loftus, Elizabeth, & Jerman, M. Problem-solving on a Computer-based Teletype. Educational Studies in Mathematics, 1969, 2, 1-15.
- drill-and-practice; word problem; arithmetic; problem solving; teletype; difficulty level; elementary grades
- 0713 Laubsch, J. H. An Adaptive Teaching System for Optimal Item Allocation. Technical Report No. 151, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1969.
- adaptive teaching system; presentation mode; sequence; learning model; Swahili; college; response; latency; error rate
- 0714 Atkinson, R. C., & Hansen, D. N. Computer-assisted Instruction in Initial Reading: The Stanford Project. Technical Report No. 93, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1966.
- reading; elementary grades; Stanford University; terminal; audio; visual; programming; curriculum

0715-0718

- 0715 Atkinson, R. C. Computerized Instruction and the Learning Process. Technical Report No. 122, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1967.

Stanford University; levels of CAI; drill-and-practice; dialogue system; tutorial; reading; hardware; math; branching; games; audio; macro; learning; Coursewriter II; elementary grades

- 0716 Suppes, P., & Ihrke, Constance. Accelerated Program in Elementary-school Mathematics--The Fourth Year. Technical Report No. 148, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1969.

math; elementary grades; drill-and-practice

- 0717 Brief History of Computer-assisted Instruction at the Institute for Mathematical Studies in the Social Sciences. Stanford University, Stanford, Calif., 1970, (mimeo).

Stanford University; hardware; audio; logic; elementary grades; arithmetic; drill-and-practice; tutorial; reading; high school; Russian; college; programming; strand; deaf; language arts; handicapped--trainable; overview; achievement

- 0718 Jerman, M., & Suppes, P. A Workshop on Computer-assisted Instruction in Elementary Mathematics. Arithmetic Teacher, 1969 (March), 16, 193-97.

math; elementary grades; Stanford University; drill-and-practice; concept block; strand; strategy--instructional; Mississippi; teacher; workshop

0719-0721

- 0719 Suppes, P., & Morningstar, Mona. Technological Innovations: Computer-assisted Instruction and Compensatory Education. In F. Korten, S. Cook, & J. Lacey (Eds.), Psychology and the Problems of Society. Washington, D. C.: American Psychological Association, Inc., 1970. Pp. 221-36.

Stanford University; overview; elementary grades; logic; math; drill-and-practice; teletype; terminal; motivation; learner; evaluation; achievement; compensatory education; strand; curriculum; decision rules; individualization; diagnostic tool; disadvantaged

- 0720 Stanford Program in Computer-assisted Instruction for the Period Oct. 1 to Dec. 31, 1968. Progress Report, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1969.

Stanford University; drill-and-practice; strand; math; junior high; tutorial; deaf; reading; audio; curriculum; teacher; decision rules; logic; Russian; college; algebra; programming; language; AID; high school; SIMPER; LOGO; hardware; PDP-10; time-sharing; elementary grades

- 0721 Suppes, P., & Morningstar, Mona. Evaluation of Three Computer-assisted Instruction Programs. Technical Report No. 142, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1969.

drill-and-practice; math; elementary grades; tutorial; Russian; college; Stanford University; achievement; evaluation; curriculum; difficulty level; McComb County, Mississippi; audio; ability; disadvantaged

0722-0725

- 0722 Stanford Program in Computer-assisted Instruction for the Period Oct. 1 to Dec. 31, 1967. Progress Report, Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1968.
- math; elementary grades; utilization; proctor; curriculum development; individualization; branching; difficulty level; reading; data analysis; curriculum; drill-and-practice; junior high; disadvantaged; strand; teletype; logic; algebra; Dial-A-Drill; Stanford University; Russian; college; achievement; spelling; hardware; software
- 0723 Yancey, J. M. Computer Assisted Instruction Programming Techniques as an Aid in the Teaching of Introductory Psychology. Final Report, NSF Grant I-2188, Elizabethtown College, Elizabethtown, Pa., 1968.
- programming; psychology; feasibility; college; learner; attitude; achievement; motivation; paired learning; ability
- 0724 Conway, J. O., Gilman, D. A., & Fejfar, J. L. Computer Assisted Instruction and Multi-media Instruction at Indiana State University. Contemporary Education, 1969, 40, 293-95.
- Indiana State University; physics; college; multi-media; math; drill-and-practice; research & development; overview
- 0725 Coleman, J. S., Kuethe, J. L., Boocock, S. S., Nicholson, Cadie, & Inbar, M. Research Program in the Effects of Games with Simulated Environments in Secondary Education. Report No. 2, Department of Social Relations, John Hopkins University, Baltimore, Maryland, 1964.
- games; high school; socioeconomic games; career game; college; democracy game; School Board game

0726-0730

- 0726 Gilman, D. A. A Comparison of the Effectiveness of Feedback Modes for Teaching Science Concepts by Means of a Computer-assisted Adjunct Auto-instruction Program. Dissertation Abstracts, 1968, 29(1-A), 182-83. (Abstract).
- feedback; science; college; confidence; aptitude; retention; attitude
- 0727 Gilman, D. A. Computer-assisted Instruction for Technical Education. School Shop, 1966 (Nov.), 26, 23-25.
- vocational education; technical education; overview; advantages
- 0728 Gilman, D. A. A Comparison of Several Feedback Modes in a Computer-assisted Adjunct Auto-instructional Program. School of Education, Indiana State University, Terre Haute, 1968, (mimeo).
- feedback; science; college; confidence; attitude; aptitude; retention
- 0729 Gilman, D. A. The Effect of Feedback on Learner's Certainty of Response and Attitude toward Instruction in a Computer-assisted Instruction Program for Teaching Science Concepts. School of Education, Indiana State University, Terre Haute, 1968, (mimeo).
- science; college; feedback; confidence; aptitude
- 0730 Gilman, D. A. The Effects of Feedback on Learner's Certainty of Response and Admissible Probability Estimates in Computer-assisted Instruction. Paper presented at the Indiana Psychological Association convention, French Lick, 1968.
- feedback; confidence; retention; science; college

0731-0734

- 0731 Weiner, M., Malkin, S., Helm, C., & Howell, J. An Evaluation of the 1963-1969 New York City Computer Assisted Instruction Project in Elementary Arithmetic. Division of Teacher Education, City University of New York, 1969.

New York City; drill-and-practice; arithmetic; elementary grades; hardware; concept block; curriculum; teacher; training; personnel; terminal; achievement; sex; disadvantaged; latency; error rate; time outs; attitude; learner; administrator; parents; ability

- 0732 O'Dea, E. P. Computer Assisted Instruction Teaches Computer System at IBM. Training in Business and Industry, 1971, 8(3), 33-35.

training; IBM; terminal; IBM 2260; testing; information processing operations; advantages

- 0733 Abramson, T., Weiner, M., Malkin, S., & Howell, J. Evaluation of the New York City Computer Assisted Instruction Project in Elementary Arithmetic--Second Year, 1969-70. Research Report 70-16, Research and Evaluation Unit, Division of Teacher Education, City University of New York, 1970.

New York City; drill-and-practice; arithmetic; elementary grades; teacher; individualization; obstacles; personnel; training; terminal; utilization; achievement; reading; attitude; testing; sex; disadvantaged; ability; error rate; latency; time outs; learner; parents

- 0734 Seminar on the Use of Computers in Higher Education, held in Portland, Oregon, Oct. 26-30, 1970. Centre for Educational Research and Innovation, Organization for Economic Co-operation and Development, Paris, 1971.

innovation; education; educational technology; applications; research & development; higher education; international; curriculum development; hardware; interface; cost; software; strategy--instructional; language; information exchange

0735-0739

- 0735 Educational Technology in Higher Education: The Promises and Limitations of ITV and CAI. Engineering Education, 1970, 60(5), 384.
higher education; educational technology; engineering; television; limitations
- 0736 Hrones, J. A. Information Systems and Higher Learning. Journal of Engineering Education, 1969, 59(5), 381-83.
higher education; applications; limitations; administration
- 0737 Seider, W. D. Time Sharing in Engineering Education. Journal of Engineering Education, 1969, 59(5), 384-86.
engineering education; time-sharing; calculation; chemical engineering; terminal
- 0738 The Application of Technology to Education. Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969.
applications; college; hardware; system design; computer-managed instruction; cost; educational technology; limitations; obstacles
- 0739 Chambers, C. C. Utilization of Technology in Education--A Fast-growing Industry. In The Application of Technology to Education. Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969. P. 4.
technology; education, utilization

0740-0744

- 0740 Bitzer, D. L. Design Aspects of Computer-based Education. In The Application of Technology to Education. Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969. Pp. 12-14.
- system design; hardware; PLATO; plasma display panel; terminal; cost
- 0741 Silberman, H. F. Computer-managed Instruction: Use of a Computer to Monitor Student Performance. In The Application of Technology to Education. Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969. Pp. 14-16.
- computer-managed instruction; monitor; IMS; management system--instructional; diagnostic tool; IPI
- 0742 Discussion: The Role of Computers in Education. In The Application of Technology to Education. Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969. Pp. 16-18.
- cost; programming; decision rules; evaluation
- 0743 Williams, E. M. Toward a Systems Approach in the Design of Learning Systems. In The Application of Technology to Education. Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969. Pp. 19-22.
- systems approach; reinforcement; interaction; educational technology
- 0744 Engler, D. Problems in Defining and Applying Educational Technology. In The Application of Technology to Education. Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969. Pp. 24-25.
- educational technology; definition; obstacles

0745-0749

- 0745 Alkin, M. C. Problems of Schools in Introducing New Technology. In The Application of Technology to Education. Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969. Pp. 26-29.
failure; innovation; educational technology; budget; evaluation
- 0746 Hoitsma, L. BASIC in Ten Minutes a Day. Secondary School Publication, Kiewit Computation Center, Dartmouth College, Hanover, New Hampshire, 1970.
language; BASIC; programming; high school; teletype; curriculum
- 0747 Weissman, K. School BASIC. Secondary School Publication, Kiewit Computation Center, Dartmouth College, Hanover, New Hampshire, 1970.
language; BASIC; programming; junior high; high school
- 0748 Computers: New Era for Education? National School Public Relations Association, 1201 16th Street, N.W., Washington, D. C., 1968.
applications; Stanford University; reading; elementary grades; overview; sex; music; physics; college; Florida State University; junior high; science; advantages; individualization; teacher; cost; counseling
- 0749 BASIC. (5th Ed.) Kiewit Computation Center, Dartmouth College, Hanover, New Hampshire, 1970.
language; programming; BASIC

0750-0753

- 0750 Teacher's Handbook: The Stanford Project in Computer-assisted Instruction in Elementary Arithmetic and Logic and Algebra. Institute for Mathematical Studies in the Social Sciences, Stanford University, Stanford, Calif., 1971.
- math; drill-and-practice; strand; elementary grades; logic; algebra; teacher; terminal; teletype; curriculum; decision rules
- 0751 Grayson, L. P. Computer-assisted Instruction and Its Implications for University Education. In The Application of Technology to Education. Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969. Pp. 7-12.
- time-sharing; definition; applications; college; overview; obstacles; hardware; cost; graphics; terminal; software; language; effectiveness; future; implementation; tutorial
- 0752 Vinsonhaler, J. F., & Bass, R. Where It's At: On the Evaluation of CAI Drill and Practice. Information Systems Laboratory, Michigan State University, East Lansing, 1971.
- drill-and-practice; language arts; math; elementary grades; achievement; effectiveness
- 0753 Edwards, Judith B. Computer Instruction: Planning and Practice. Northwest Regional Educational Laboratory, Portland, Oregon, 1969.
- NETWORK; Marion County, Oregon; teacher; training; programming; language; assembler; compiler; math; problem solving; business education; terminal; time-sharing; BASIC; hardware; PDP-8/S; ECP-18; mobile installation; IBM/1130; input; cost; bibliography

0754-0757

- 0754 Computer Applications in Dental Education: A Conference Report. Washington, D. C.: U. S. Department of Health, Education, and Welfare, 1971.
- dental education; applications; administrative; overview; project
- 0755 Lyman, Elisabeth R. A Summary of PLATO Curriculum and Research Materials. CERL Report X-23, Computer-based Education Research Laboratory, University of Illinois, Urbana, 1971.
- PLATO; language; TUTOR; project; curriculum; astronomy; biology; chemistry; college; games; demography; economics; education; civil engineering; electrical engineering; mechanics; French; Latin; library science; math; drill-and-practice; physics; political science; Russian; Spanish; veterinary medicine; bibliography
- 0756 Bitzer, D., & Skaperdas, D. The Economics of a Large-scale Computer-based Education System PLATO IV. Computer-based Education Research Laboratory, University of Illinois, Urbana, 1968, (mimeo).
- PLATO; terminal; multi-media; computation; student records; system design; cost; plasma display panel
- 0757 Stolurrow, L. M. Learning in the Medical/Dental School Environment. In Computer Applications in Dental Education: A Conference Report. Washington, D. C.: Department of Health, Education and Welfare, 1971. Pp. 12-49.
- dental education; medicine; educational technology; individualization; interaction; instruction; levels of CAI; pathology; dialogue system; Socrates; strategy--instructional; visual; TAPS; anatomy; ophthalmology; information retrieval; hematology; simulation

0758-0762

- 0758 Grubb, R. E. CAI: Technical Aspects and Resources. In Computer Applications in Dental Education: A Conference Report. Washington, D. C.: Department of Health, Education, and Welfare, 1971. Pp. 50-64.

instructional technology; levels of CAI; IBM; interaction; learner-controlled instruction; statistics; achievement; arithmetic; practice; teacher; learner

- 0759 Starkweather, J. A. Educational Networks and Interfacing with the University Computing Center. In Computer Applications in Dental Education: A Conference Report. Washington, D. C.: Department of Health, Education, and Welfare, 1971. Pp. 65-98.

medicine; installation; centralization; hardware; applications; software; curriculum development; evaluation; interaction; programming; curriculum; language

- 0760 James, H. T. Reservations on the Application of Technology to Education. In The Application of Technology to Education. Proceedings of a Symposium, American Society for Engineering Education, 2100 Pennsylvania Ave., N.W., Washington, D. C., 1969. Pp. 31-33.

educational technology; education; limitations

- 0761 Rahmlow, H. F., & Kerr, E. G. The Modular Development of Computer-assisted Instruction Programs. NSPI Journal, 1969, 8(2), 20-23.

math; curriculum development; strategy--instructional; testing

- 0762 Brigham, C. R. Computer Assisted Instruction in the Health Sciences: Literature Search. Health Sciences Interest Group, Association for the Development of Instructional Systems, 1971.

bibliography; health sciences; medicine

0763-0767

- 0763 Tira, D. E. Ohio State Regional Medical Program Computer-assisted Instruction Study. In Computer Applications in Dental Education: A Conference Report. Washington, D. C.: U. S. Department of Health, Education and Welfare, 1971. Pp. 103-09.
- medicine; Ohio State University; anatomy; dentistry; inservice education; tutorial
- 0764 Computer-assisted Instruction: Report of Discussion Group. In Computer Applications in Dental Education: A Conference Report. Washington, D. C.: U. S. Department of Health, Education, and Welfare, 1971. Pp. 144-55.
- overview; project; Cornell University; anatomy; obstacles; Stony Brook, N. Y.; University of Calif., San Francisco; University of Iowa; abstracts; cost; dentistry; medicine
- 0765 Project Abstract: Cornell University Medical College. In Computer Applications in Dental Education: A Conference Report. Washington, D. C.: U. S. Department of Health, Education, and Welfare, 1971. P. 148 (Abstract).
- Cornell University; project; tutorial; anatomy; medicine
- 0766 Project Abstract: Ohio State University. In Computer Applications in Dental Education: A Conference Report. Washington, D. C.: U. S. Department of Health, Education, and Welfare, 1971. P. 149 (Abstract).
- Ohio State University; project; inservice education; dentistry; attitude
- 0767 Project Abstract: University of California, San Francisco Medical Center. In Computer Applications in Dental Education: A Conference Report. Washington, D. C.: U. S. Department of Health, Education, and Welfare, 1971. P. 152 (Abstract).
- University of California, San Francisco; medicine; dentistry; simulation; interview; project

0768-0773

- 0768 Project Abstract: University of Pittsburgh. In Computer Applications in Dental Education: A Conference Report. Washington, D. C.: U. S. Department of Health, Education, and Welfare, 1971. P. 154 (Abstract).
University of Pittsburgh; simulation; dentistry
- 0769 Project Abstract: Dental Health Center. In Computer Applications in Dental Education: A Conference Report. Washington, D. C.: U. S. Department of Health, Education, and Welfare, 1971. P. 155 (Abstract).
dentistry; training; simulation
- 0770 Webber, C. E., & Montague, W. E. PAVLEW: A Program for Verbal Learning Experiments on the PLATO System. Report I-135, Coordinated Science Laboratory, University of Illinois, Urbana, 1966.
learning; verbal learning; PLATO; program; PAVLEW; paired associate learning
- 0771 Braunfeld, P. G., & Fosdick, L. D. The Use of an Automatic Computer System in Teaching. Report R-160, Coordinated Science Laboratory, University of Illinois, Urbana, 1962.
PLATO; hardware; terminal; strategy--instructional; programming--course; college: achievement; curriculum
- 0772 CAI Reporter, 1971, 1(11), 1-8.
West Point; time-sharing; Digital Equipment Corp.
- 0773 The Use of Computers in Instruction. AEDS Monitor, 1971, 9(11), 4.
teacher; utilization

0774-0777

- 0774 Bitzer, D., & Skaperdas, D. The Design of an Economically Viable Large-scale Computer-based Education System. CERL Report X-5, Computer-based Education Research Laboratory, University of Illinois, Urbana, 1969.
- PLATO; terminal; nursing; geometry; response; system design; cost; curriculum development; plasma display panel
- 0775 Easley, J. A., Jr., Gelder, H. M., & Golden, W. M. A PLATO Program for Instruction and Data Collection in Mathematical Problem Solving. Report R-185, Coordinated Science Laboratory, University of Illinois, Urbana, 1964.
- math; theorem proofs; junior high; teacher education; PLATO; problem solving; algebra; geometry
- 0776 Task Group Suggests New CAI System Approaches. CAI Reporter, 1971, 1(12), 1-3.
- reading; math; elementary grades; curriculum development; television--cable; cost
- 0777 Easley, J. A., Jr. A Project to Develop and Evaluate a Computerized System for Instructional Response Analysis. Final Report, Contract No. OE-6-10-184. Office of Education, U. S. Department of Health, Education, and Welfare. Computer-based Education Research Laboratory, University of Illinois, Urbana, 1968.
- PLATO; response; personnel; evaluation; SIRA; data; debugging; student records; research tool; instruction; author; response-data processing; storage; software; program; learner; attitude; socioeconomic level; behavior; disadvantaged; high school; motivation; age; sex; reinforcement; curriculum development

0778-0782

- 0778 Kendzior, Elizabeth. Curriculum Development Based on Student Responses. In J. A. Easley, Jr., A Project to Develop and Evaluate a Computerized System for Instructional Response Analysis. Final Report. Computer-based Education Research Laboratory, University of Illinois, Urbana, 1968. Pp. 30-47.
- curriculum development; teacher; learner; genetics; evolution; high school; evaluation; debugging; implementation; attitude
- 0779 Dennis, J. R. Revision of Course Content Based on Student Response Analysis. In J. A. Easley, Jr., A Project to Develop and Evaluate a Computerized System for Instructional Response Analysis. Final Report. Computer-based Education Research Laboratory, University of Illinois, Urbana, 1968. Pp. 42-44.
- geometry; junior high; curriculum development; debugging; revision; response
- 0780 Cassel, R. N. The UWM Computerized Psychology and Guidance Programs. Newsletter of the Association for Development of Instructional Systems, July, 1971, 4-10.
- University of Wisconsin, Milwaukee; counseling; drug abuse education; psychology; vocational guidance; guidance; school psychology; testing
- 0781 Hicks, B. L. PLATO Program: VERBOSE. Report I-129, Coordinated Science Laboratory, University of Illinois, Urbana, 1965.
- program; VERBOSE; word association
- 0782 Johnson, R. L. The Use of Programmed Learning and Computer-based Instruction Techniques to Teach Electrical Engineering Network Analysis. Report R-297, Coordinated Science Laboratory, University of Illinois, Urbana, 1966.
- electrical engineering; network analysis; PLATO; tutorial; inquiry; objectives--course; evaluation; achievement; college; attitude

0783-0786

- 0783 Lyman, Elisabeth R. A Descriptive List of PLATO Programs 1960-1968. CERL Report X-2, Computer-based Education Research Laboratory, University of Illinois, Urbana, 1968.
- PLATO; program; strategy--instructional; tutorial; inquiry; college; curriculum; laboratory; simulation; games; demonstration; programming--course; electrical engineering; math; high school; Latin; French; library science; English; nursing; genetics; chemistry; political science
- 0784 Alpert, D., & Bitzer, D. L. Advances in Computer-based Education. CERL Report X-10, Computer-based Education Research Laboratory, University of Illinois, Urbana, 1969.
- strategy--instructional; tutorial; inquiry; cost; drill-and-practice; applications; evaluation; overview; software; PLATO; future; hardware; terminal; utilization
- 0785 Barnes, O. D. Uses of Computer Assisted Instruction in the Teaching of Mathematics. Paper presented at the 46th Convention of American Instructors of the Deaf, 1971.
- math; problem solving; plotting; tutorial; drill-and-practice; diagnostic tool; deaf
- 0786 Barnes, O. D., & Finkelstein, Arlene. The Role of Computer Assisted Instruction at the National Technical Institute for the Deaf. Paper presented at Symposium on Research and Utilization of Educational Media for Teaching the Deaf, Lincoln, Nebraska, 1971.
- deaf; math; diagnostic tool; chemistry; strategy--instructional; science

0787-0791

- 0787 Bitzer, D. L. Some Pedagogical and Engineering Design Aspects of Computer-based Education. Paper presented at the Naval Training Station, China Lake, Calif., 1968.
- PLATO; terminal; computation; geometry; junior high; laboratory; simulation; cost; electrical engineering; nursing; system design; plasma display panel
- 0788 Bachman, R. G. Application of a Computer Controlled Automatic Teaching System to Network Synthesis. Report I-115, Coordinated Science Laboratory, University of Illinois, Urbana, 1962.
- response; PLATO; network synthesis; electrical engineering; debugging; curriculum
- 0789 Bitzer, D. L., Lyman, Elisabeth R., & Easley, J. A., Jr. The Uses of PLATO: A Computer Controlled Teaching System. Report R-268, Coordinated Science Laboratory, University of Illinois, Urbana, 1965.
- PLATO; strategy--instructional; tutorial; inquiry; terminal; electronic blackboard; research; overview
- 0790 Bitzer, D. L., Lyman, Elisabeth R., & Easley, J. A., Jr. The Uses of PLATO: A Computer Controlled Teaching System. Audiovisual Instruction, 1966, 11(1), 16-21.
- PLATO; strategy--instructional; tutorial; inquiry; terminal; electronic blackboard; research; overview
- 0791 Bitzer, D. L., Blomme, R. W., Sherwood, B. A., & Tenczar, P. The PLATO System and Science Education. CERL Report X-17, Computer-based Education Research Laboratory, University of Illinois, Urbana, 1970.
- PLATO; curriculum; life sciences; genetics; nursing; chemistry; physics; electrical engineering; civil engineering; college; language; TUTOR; hardware; author; software

0792-0795

- 0792 Bitzer, D. L., & Easley, J. A., Jr. PLATO: A Computer-controlled Teaching System. Paper presented at Department of Audiovisual Instruction convention, Rochester, N. Y., 1964.
- PLATO; strategy--instructional; tutorial; inquiry; hardware; terminal; electronic book; electronic blackboard
- 0793 Bitzer, D. L., & Easley, J. A., Jr. PLATO: A Computer-controlled Teaching System. In Margo A. Sass & W. D. Wilkinson (Eds.), Computer Augmentation of Human Reasoning. Washington, D. C.: Spartan Books, 1965. Pp. 89-103.
- PLATO; strategy--instructional; tutorial; inquiry; electronic book; electronic blackboard; hardware; terminal
- 0794 Lyman, Elisabeth R. A Descriptive List of PLATO Programs 1960-1971. CERL Report X-2 (Revised June, 1971), Computer-based Education Research Laboratory, University of Illinois, Urbana, 1971.
- PLATO; curriculum; astronomy; biology; chemistry; communications; demography; economics; research; civil engineering; electrical engineering; French; nursing; Latin; library science; math; physics; political science; Russian; Spanish; veterinary medicine; bibliography
- 0795 Jerman, M. Computer-assisted Instruction. In N. G. Haring & Alice H. Hayden (Eds.), Workshop in Instructional Improvement: Behavior Modification. Fort Steilacoom, Washington: Child Study and Treatment Center, 1968. Pp. 99-115.
- elementary grades; logic; algebra; arithmetic; levels of CAI; drill-and-practice; evaluation; tutorial; dialogue system; individualization; teacher; concept block; implementation; difficulty level; Stanford University

0796-0800

- 0796 Smallwood, R. D., Weinstein, I. J., & Eckles, J. E. Quantitative Methods in Computer-directed Teaching Systems. Final Report on Office of Naval Research Contract Nonr-225(84). Institute in Engineering-Economic Systems, Stanford University, Stanford, Calif., 1967.
- system analysis; decision rules; tutorial; model; learning model; strategy--instructional; optimization; system design; system engineering; education; individualization
- 0797 Sargent, R. G., Fishell, K. N., Belland, J. C., et al. Large Scale Information Processing System Vol. III. Model Building and Educational Use of Computers. Technical Report RADC-TR-68-401, Vol. III, Rome Air Development Center, Air Force Systems Command, Griffiss Air Force Base, New York, 1969.
- programmed instruction; teacher; behavior; BASIC; response
- 0798 Thomas, M. E., & McKinney, G. Computer Simulations in an Introductory Course in Industrial Engineering. Journal of Engineering Education, 1969, 59(5), 401-04.
- industrial engineering; simulation; time-sharing
- 0799 Forsyth, J. S., & Ratkowsky, D. A. Using a Computer for Undergraduate Laboratory Calculations. Journal of Engineering Education, 1969, 59(5), 420-21.
- chemical engineering; problem solving
- 0800 Burkhart, L. E., Larson, M. A., & Stevens, J. D. Analog Computers Help to Develop Methods of Applied Mathematics. Journal of Engineering Education, 1969, 59(5), 387-90.
- chemical engineering; analog computer; problem solving; simulation

0801-0804

- 0801 Robertson, T. F. The New Impact: Technology in Education. In N. G. Haring & Alice H. Hayden (Eds.), Workshop in Instructional Improvement: Behavior Modification. Fort Steilacoom, Washington: Child Study and Treatment Center, 1968. Pp. 358-67.

individualization; educational technology; applications; computation; teacher; drill-and-practice; tutorial; dialogue system; games; simulation; project; overview; cost; hardware

- 0802 Block, Karen K. Strategies in Computer-assisted Instruction: A Selective Overview. Monograph 1971/1, Learning Research and Development Center, University of Pittsburgh, Pennsylvania, 1970.

applications; management system; definition; hardware; software; implementation; interface; interaction; overview; strategy--instructional; drill-and-practice; tutorial; Stanford University; simulation; curriculum development; terminal; optimization; future; obstacles

- 0803 Cooley, W. W. Computer Assistance for Individualized Education. Reprint No. 57, Learning Research and Development Center, University of Pittsburgh, Pennsylvania, 1970.

Learning Research and Development Center; individualization; Individually Prescribed Instruction; IPI; testing; management system; teacher

- 0804 Cooley, W. W. Computer Assistance for Individualized Education. Journal of Educational Data Processing, 1970, 7, 18-28.

Learning Research and Development Center; individualization; Individually Prescribed Instruction; IPI; testing; management system; teacher

0805-0809

- 0805 Cooley, W. W., & Glaser, R. The Computer and Individualized Instruction. Reprint No. 53, Learning Research and Development Center, University of Pittsburgh, Pennsylvania, 1969.
- individualization; Individually Prescribed Instruction; computer-managed instruction; IPI; decision rules; implementation
- 0806 Block, Karen K., Tucker, Shirley, & Peskowitz, Nancy B. Drill-and-Practice in CAI Spelling: Project Interim Report #1. Word Ratings and Instructional Treatment. Learning Research and Development Center, University of Pittsburgh, Pennsylvania, 1971.
- drill-and-practice; tutorial; spelling; confidence
- 0807 Lindvall, C. M., & Cox, R. C. The Role of Evaluation in Programs for Individualized Instruction. Reprint No. 40, Learning Research and Development Center, University of Pittsburgh, Pennsylvania, 1969.
- individualization; testing; objectives--instructional; evaluation
- 0808 Glaser, R. Adapting the Elementary School Curriculum to Individual Performance. Reprint No. 26, Learning Research and Development Center, University of Pittsburgh, Pennsylvania, 1967.
- individualization; objectives--educational; testing; Individually Prescribed Instruction; IPI; Oakleaf School
- 0809 Glaser, R. Adapting the Elementary School Curriculum to Individual Performance. In Proceedings of the 1967 Invitational Conference on Testing Problems. Princeton, N. J.: Educational Testing Service, 1968. Pp. 3-36.
- individualization; objectives--educational; testing; Individually Prescribed Instruction; IPI; Oakleaf School

0810-0814

- 0810 Lindvall, C. M., & Cox, R. C. The Role of Evaluation in Programs for Individualized Instruction. In Sixty-eighth Yearbook of the National Society for the Study of Education, Part II. Chicago: National Society for the Study of Education, 1969. Pp. 156-88.
- individualization; testing; objectives--instructional; evaluation
- 0811 Fishell, K. N., Belland, J. C., & Rothenberg, S. On-line Instructional Applications. In R. G. Sargent, K. N. Fishell, J. C. Belland, et al., Large Scale Information Processing System Vol. III. Model Building and Educational Use of Computers. Technical Report RADC-TR-68-401, Vol. III, Rome Air Development Center, Air Force Systems Command, Griffis Air Force Base, New York, 1969. Pp. 37-94.
- teacher; behavior; programmed instruction; BASIC
- 0812 Cunningham, S. L., & Fuller, R.G. Computer Assisted Tutoring in Relativity--An Experiment. Department of Physics, University of Nebraska, Lincoln, 1971.
- testing; personnel; achievement; relativity; physics; attitude
- 0813 Computers for Education. Working Paper No. 1, Report of a Working Party under the Chairmanship of Professor J. Black. London: National Council for Educational Technology, 1969.
- applications; system; interaction; hardware; software; language; elementary grades; higher education; vocational education; cost; research & development
- 0814 Bork, A. M., Luehrmann, A., & Robson, J. W. Introductory Computer-based Mechanics: A One Week Sample Course, R. Blum (Ed.). College Park, Maryland: Commission on College Physics, 1968.
- physics; mechanics; calculation

0815-0819

- 0815 Le Corre, Y., Jacoud, R., et al. Computer Assisted Instruction. Technical Report CERI/CT/70.60, Centre for Educational Research and Innovation, Organization for Economic Co-operation and Development, Paris, 1971.

hardware; obstacles; personnel; physics; electricity; language; author; software; graduate education; curriculum development; computation; biology; college; attitude; cost; teacher; learner; English; grammar; linguistics; calculus; strategy--instructional; Paris University

- 0816 Suppes, P., & Ihrke, Constance. Accelerated Program in Elementary-school Mathematics--The Fourth Year. Psychology in the Schools, 1970, 7(2), 111-26.

math; elementary grades; drill-and-practice

- 0817 Zinn, K. Requirements for Programming Languages in Computer-based Instructional Systems. Technical Report CERI/CT/70.62, Centre for Educational Research and Innovation, Organization for Economic Co-operation and Development, Paris, 1971.

language; programming; interaction; user; curriculum development; applications; hardware; cost; glossary

- 0818 Uttal, W. R., Rogers, Mirriam, Hieronymous, R., & Pasich, T. Generative Computer-assisted Instruction in Analytic Geometry. Newburyport, Mass.: ENTELEK, Inc., 1970.

levels of CAI; problem generation; tutorial; analytic geometry; response; software; programs; diagnostic tool; terminal; television display

- 0819 Simmons, R. F., Schwarcz, R. M., & Burger, J. F. Computer Assisted Instruction Using Natural Language. TM-4246, System Development Corp., Santa Monica, Calif., 1968.

natural language; conceptual modeling

0820-0824

- 0820 Schwarcz, R. M., Burger, J. F., & Simmons, R. F. A Deductive Question Answerer for Natural Language Inference. SP-3272, System Development Corp., Santa Monica, Calif., 1968.
- natural language; question answerer
- 0821 Taylor, E. F. (Ed.) ELIZA: A Skimmable Report on the ELIZA Conversational Tutoring System. Education Research Center, Massachusetts Institute of Technology, Cambridge, 1968.
- ELIZA; tutorial; typewriter; program; physics; natural language; slides
- 0822 Taylor, E. F. Automated Tutoring and Its Discontents. In E. F. Taylor (Ed.), ELIZA: A Skimable Report on the ELIZA Conversational Tutoring System. Education Research Center, Massachusetts Institute of Technology, Cambridge, 1968.
- vectors; relativity; ELIZA; tutorial; physics; attitude; limitations
- 0823 Weizenbaum, J. Contextual Understanding by Computers. In E. F. Taylor (Ed.), ELIZA: A Skimmable Report on the ELIZA Conversational Tutoring System. Education Research Center, Massachusetts Institute of Technology, Cambridge, 1968.
- ELIZA; understanding; natural language; interaction
- 0824 Taylor, E. F. The ELIZA Program: Conversational Tutorial. IEEE International Convention Record, 1967, 5(Pt. 10), 8-15.
- tutorial; interaction; ELIZA; natural language; program; obstacles

0825-0829

- 0825 Hayward, P. R. ELIZA Scriptwriter's Manual. Education Research Center, Massachusetts Institute of Technology, Cambridge, 1968.
- ELIZA; natural language; language; programming; author
- 0826 Igo, R., Hall, K. A., & Mitzel, H. E. Commonwealth CAI Consortium. Technical Report, Computer Assisted Instruction Laboratory, Pennsylvania State University, University Park, Nov. 15, 1969, (mimeo).
- high school; algebra; math; tutorial; debugging; evaluation; curriculum development; attitude
- 0827 Igo, R., Hall, K. A., & Mitzel, H. E. Commonwealth CAI Consortium. Technical Report, Computer Assisted Instruction Laboratory, Pennsylvania State University, University Park, Feb. 28, 1970.
- algebra; math; high school; debugging; personnel; teacher education; time; utilization; tutorial
- 0828 Igo, R., Hall, K. A., & Mitzel, H. E. Commonwealth CAI Consortium. Technical Report R-41, Computer Assisted Instruction Laboratory, Pennsylvania State University, University Park, Feb. 28, 1971.
- algebra; math; high school; tutorial; testing; achievement; attitude
- 0829 Mitzel, H. E., Brown, B. R., & Igo, R. The Development and Evaluation of a Teleprocessed Computer-assisted Instruction Course in the Recognition of Malarial Parasites. Final Report R-17, Computer Assisted Instruction Laboratory, Pennsylvania State University, University Park, 1968.
- medicine; malaria parasites; hardware; curriculum development; achievement

0830-0834

- 0830 Taylor, E. F. The ELIZA Program: Conversational Tutorial. In E. F. Taylor (Ed.), ELIZA: A Skimmable Report on the ELIZA Conversational Tutoring System. Education Research Center, Massachusetts Institute of Technology, Cambridge, 1968.
- tutorial; interaction; ELIZA; natural language; program; obstacles
- 0831 Weizenbaum, J. ELIZA--A Computer Program for the Study of Natural Language Communication between Man and Machine. In E. F. Taylor (Ed.), ELIZA: A Skimmable Report on the ELIZA Conversational Tutoring System. Education Research Center, Massachusetts Institute of Technology, Cambridge, 1968.
- ELIZA; interaction; natural language; programming; language
- 0832 Brehme, R. The ELIZA System at Wake Forest University. In E. F. Taylor (Ed.), ELIZA: A Skimmable Report on the ELIZA Conversational Tutoring System. Education Research Center, Massachusetts Institute of Technology, Cambridge, 1968.
- ELIZA; Wake Forest University; tutorial; physics; obstacles; attitude; achievement; evaluation
- 0833 Sherman, N. Can We Allow Students to Ask Questions? In E. F. Taylor (Ed.), ELIZA: A Skimmable Report on the ELIZA Conversational Tutoring System. Education Research Center, Massachusetts Institute of Technology, Cambridge, 1968.
- tutorial; physics; evaluation; ELIZA; program
- 0834 Knudsen, M. J. SLIDE--Dictionary System for Use with ELIZA Scripts. In E. F. Taylor (Ed.), ELIZA: A Skimmable Report on the ELIZA Conversational Tutoring System. Education Research Center, Massachusetts Institute of Technology, Cambridge, 1968.
- slide projector; ELIZA

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Gilman, D. A., & Hernandez, I. The Retention of Concepts Learned as a Result of Several Feedback Modes in Computer-assisted Instruction. Paper presented at Dept. of Audiovisual Instruction/NEA meeting, Detroit, Mich., 1970.

confidence; feedback; error correction; retention; science; college

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0340 0353 0373 0377

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0603	0618	0633	0644
0675	0676	0683	0684
0690	0705	0708	0709
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0608	0649	0671	0674
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0368	0371	0373	0377
0380	0389	0395	0396
0407	0409	0421	0426
0430	0433	0434	0440
0451	0460	0469	0493
0507	0538	0543	0545
0554	0556	0557	0576
0586	0602	0606	0618
0619	0622	0637	0654
0680	0682	0685	0688
0699	0705	0707	0715
0722	0731	0734	0738
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0013	0017	0053	0093
0111	0113	0117	0148
0184	0194	0227	0231
0279	0280	0295	0300
0303	0304	0306	0318
0329	0342	0363	0373
0378	0388	0418	0432
0466	0477	0493	0495
0499	0568	0572	0595
0610	0651	0653	0725
0746	0747	0777	0778
0783	0826	0827	0828

HIGHER EDUCATION

0015	0244	0266	0271
0564	0594	0694	0734
0735	0736	0813	

HISTORY--CAI

0024 0224

HONEYWELL

0550 0552 0553

HUMANITIES

0634

HUMANIZATION

0095

HUMRRO

0243

IBM

0019	0098	0125	0299
0397	0440	0479	0732
0758			

IBM/1130

0047 0673 0753

IBM 1410/1440

0293

IBM 1440 SYSTEM

0630

IBM/1500

0033	0035	0138	0163
0197	0198	0247	0370
0474	0623	0624	

IBM 1500/1800

0352

IBM/1510

0197

IBM/2260

0732

IBM/360

0027	0184	0322	0355
0401			

IBM/3735

0371

IBM/650 RAMAC

0702

IMAGE PROJECTOR

0138 0197

IMPACT

0212 0242 0243 0599
0635 0637

IMPLEMENTATION

0127 0133 0163 0190
0283 0310 0358 0491
0503 0521 0751 0778
0795 0802 0805

IMS

0741

INDIANA STATE UNIVERSITY

0724

INDICOM

0075 0228 0269 0373
0695

INDIVIDUALIZATION

0003 0020 0024 0028
0037 0055 0064 0073
0075 0077 0079 0082
0084 0086 0087 0091
0096 0099 0100 0101

INDIVIDUALIZATION (CONTINUED)

0102 0103 0106 0107
0110 0111 0112 0114
0115 0116 0118 0119
0120 0123 0125 0138
0139 0149 0150 0155
0156 0163 0171 0175
0181 0182 0183 0189
0191 0193 0195 0205
0209 0213 0214 0220
0224 0232 0246 0259
0272 0283 0308 0310
0311 0315 0316 0321
0323 0325 0327 0332
0341 0351 0357 0364
0373 0374 0375 0408
0415 0426 0456 0464
0472 0489 0503 0509
0510 0511 0513 0529
0540 0547 0569 0586
0567 0588 0589 0594
0604 0626 0637 0648
0664 0668 0672 0676
0677 0678 0679 0680
0681 0682 0693 0706
0722 0733 0748 0757
0795 0796 0801 0803
0804 0805 0807 0808
0809 0810

INDIVIDUALLY PRESCRIBED INSTRUCTION

0101 0310 0311 0489
0803 0804 0805 0808
0809

INDUSTRIAL EDUCATION

0328

INDUSTRIAL ENGINEERING

0536 0798

INDUSTRY

0029 0077 0137 0193
0626 0639 0661

INFORMATION EXCHANGE

0734

INFORMATION PROCESSING OPERATIONS

0732

INFORMATION RETRIEVAL

0757

INFORMATION RETRIEVAL SYSTEM

0006

INFORMATION SOURCES

0089 0409 0575 0584

INNOVATION

0046 0091 0207 0375
0464 0587 0588 0594
0643 0734 0745

INPUT

0100 0103 0365 0602
0753

INPUT/OUTPUT

0138 0197 0215 0265
0357 0501 0519 0543
0605 0649 0650 0654
0685

INQUIR

0094

INQUIRY

0006 0016 0060 0092
0175 0177 0276 0620
0782 0783 0784 0789
0790 0792 0793

INSERVICE EDUCATION

0225 0245 0276 0373
0379 0391 0504 0505
0548 0763 0766

INSTALLATION

0226 0280 0436 0595
0759

INSTALLATIONS

0071 0097 0152 0348
0355 0380 0422 0423
0424 0529

INSTITUTE IN EDUCATION MEDIA

0524

INSTRUCTION

0012 0066 0080 0114
0122 0135 0180 0196
0212 0218 0363 0441
0442 0467 0491 0523
0604 0650 0757 0777

INSTRUCTION MODEL

0598 0599

INSTRUCTION THEORY

0023 0351 0539

INSTRUCTION--GROUP

0106

INSTRUCTIONAL DESIGNER

0214

INSTRUCTIONAL MANAGEMENT SYSTEM

0319 0529

INSTRUCTIONAL OBJECTIVES

0604

INSTRUCTIONAL TECHNOLOGY

0114 0115 0287 0758

INSTRUCTOR-CONTROLLED INSTRUCTION

0033 0041 0073 0115

INSTRUCTOR-CONTROLLED LEARNING

0503

INTELLIGENCE

0233 0644

INTERACTION

0095 0103 0152 0297
0307 0341 0403 0404
0590 0614 0620 0650

INTERACTION (CONTINUED)

0702 0743 0757 0758
0759 0802 0813 0817
0823 0824 0830 0831

INTERFACE

0074 0407 0409 0602
0604 0652 0671 0734
0802

INTERNATIONAL

0226 0734

INTERNATIONAL RELATIONS

0690

INTERVIEW

0767

IPI

0310 0741 0803 0804
0805 0808 0809

JUNIOR COLLEGE

0436 0663

JUNIOR HIGH

0052 0084 0139 0163
0221 0232 0267 0295
0297 0308 0356 0360
0361 0367 0448 0472
0535 0572 0595 0693
0722 0747 0747 0748
0775 0779 0787

KANSAS CITY

0096 0163 0308 0367

KEYBOARD

0434

KEYWORDED INDEX

0385

KINETIC MOLECULAR THEORY

0603

KNOWLEDGE OF RESULTS

0220

KWIC INDEX

0386

LABORATORY

0058 0060 0132 0312
0343 0398 0432 0444
0556 0783 0787

LANGUAGE

0010 0012 0018 0021
0025 0028 0097 0127
0131 0133 0134 0135
0136 0138 0162 0163
0165 0188 0195 0215
0249 0250 0255 0257
0258 0267 0274 0279
0284 0291 0294 0296
0322 0329 0330 0346
0365 0366 0370 0372

LANGUAGE (CONTINUED)

0373 0376 0397 0403
0404 0405 0406 0407
0409 0420 0422 0423
0424 0425 0431 0438
0469 0486 0490 0501
0502 0507 0550 0551
0553 0558 0560 0562
0573 0574 0577 0578
0579 0580 0581 0596
0602 0606 0613 0614
0615 0616 0619 0622
0637 0649 0650 0652
0654 0658 0659 0662
0666 0673 0688 0689
0692 0707 0734 0746
0747 0749 0751 0753
0756 0759 0791 0813
0815 0817 0825 0831

LANGUAGE ARTS

0013 0206 0224 0232
0267 0373 0698 0752

LANGUAGE LABORATORY

0035

LATENCY

0065 0362 0710 0711
0713 0731 0733

LATIN

0231 0755 0783 0794

LAW

0267

LEARN

0231

LEARNER

0028 0106 0110 0138
0151 0198 0201 0251
0447 0499 0593 0622
0654 0655 0656 0657
0658 0673 0674 0723
0731 0733 0758 0777
0778 0815

LEARNER-CENTERED

0654 0656 0657 0658

LEARNER-CENTERED INSTRUCTION

0655

LEARNER-CONTROLLED INSTRUCTION

0033 0061 0073 0115
0124 0152 0216 0268
0337 0353 0447 0473
0474 0475 0503 0511
0563 0653 0758

LEARNER-CONTROLLED SEQUENCE

0213

LEARNING

0002 0018 0019 0020
0021 0024 0040 0082
0099 0100 0101 0104
0107 0139 0158 0204
0212 0214 0224 0294
0336 0393 0408 0452
0513 0540 0591 0627
0628 0638 0664 0669
0715 0770

LEARNING BY DISCOVERY

0093 0117 0124 0128
0369 0675

LEARNING--COMPUTER-CONTROLLED

0563

LEARNING DESK

0277

LEARNING MODEL

0023 0354 0512 0516
0608 0713 0796

LEARNING RESEARCH AND DEVELOPMENT CENTER

0803 0804

LEARNING THEORY

0023 0098 0617 0710
0711

LECTURE

0007 0168

LEVELS OF CAI

0019 0104 0297 0669
0715 0757 0758 0795
0818

LIBERAL ARTS

0433

LIBRARY SCIENCE

0755 0783 0794

LIFE SCIENCES

0791

LIGHT PEN

0123 0197 0685

LIMITATIONS

0089 0133 0253 0346
0347 0578 0604 0735
0736 0738 0760 0822

LINEAR EQUATIONS

0200

LINGUISTIC MODEL

0042 0043 0044

LINGUISTICS

0815

LISA

0330

LITERATURE

0648

LITERATURE REVIEW

0033 0089 0090 0108
0113 0166 0224 0229

LITERATURE REVIEW (CONTINUED)

0407 0408 0409 0507
0513 0525 0540 0574
0575 0647 0652

LOGARITHMS

0231

LOGIC

0148 0194 0318 0651
0653 0705 0722 0750
0795

LOUISIANA

0552

LYRIC

0502 0654 0658 0659

MACRO

0019 0715

MACROECONOMIC THEORY

0506

MAESTRO

0654

MALARIA PARASITES

0829

MANAGEMENT

0184 0326

MANAGEMENT--INFORMATION

0187 0392

MANAGEMENT--INSTRUCTIONAL

0069 0317

MANAGEMENT SYSTEM

0311 0802 0803 0804

MANAGEMENT SYSTEM--INFORMATION

0079 0149 0518

MANAGEMENT SYSTEM--INSTRUCTIONAL

0049 0050 0059 0319
0357 0377 0529 0649
0652 0741

MAPS

0570

MARION COUNTY, OREGON

0753

MASS MEDIA

0166

MATH

0009 0013 0019 0024
0026 0038 0052 0053

MATH (CONTINUED)

0054 0055 0062 0075
0077 0085 0092 0094
0105 0111 0130 0139
0159 0163 0164 0165
0184 0194 0210 0216
0224 0227 0228 0231
0234 0256 0268 0295
0297 0308 0319 0328
0342 0360 0361 0363
0367 0373 0377 0378
0388 0396 0397 0410
0430 0432 0448 0456
0466 0471 0477 0487
0504 0505 0515 0526
0538 0539 0548 0566
0568 0580 0590 0595
0600 0633 0641 0646
0659 0662 0664 0684
0701 0706 0708 0715
0716 0722 0724 0750
0752 0753 0755 0761
0775 0776 0783 0785
0786 0794 0816 0826
0827 0828

MATHS

0662

MECHANICS

0070 0252 0470 0755
0814

MEDIA

0109 0115 0192 0451
0697

MEDICINE

0054 0147 0236 0245
0267 0411 0412 0414
0419 0455 0534 0561
0615 0686 0687 0757
0759 0762 0763 0764

MEDICINE (CONTINUED)

0765 0767 0829

MEMORY

0520

MENTALLY DISTURBED CHILDREN

0202

MENTALLY RETARDED

0268

MENTOR

0103

MIT

0691

MOBILE CAI

0260 0276 0379 0505

MOBILE INSTALLATION

0753

MODEL

0796

MODEL--EDUCATIONAL

0242 0635

MONITOR

0741

MOTIVATION

0055 0073 0185 0209
0300 0351 0723 0777

MULTI-MEDIA

0095 0099 0101 0103
0154 0155 0157 0313
0337 0351 0359 0391
0436 0444 0521 0523
0529 0556 0565 0628
0724 0756

MUSIC

0035 0092 0208 0434
0748

NATURAL LANGUAGE

0042 0043 0044 0109
0123 0188 0195 0235
0236 0412 0507 0596
0597 0613 0819 0820
0821 0823 0824 0825
0830 0831

NAVY

0229

NEGRO

0007

NETWORK

0753

NETWORK ANALYSIS

0782

NETWORK SYNTHESIS

0788

NEWCASTLE UNIVERSITY TEACHING SYSTEM

0366

NEW YORK CITY

0005 0125 0126 0227
0292 0700 0731 0733

NOISE

0282

NOISE LEVEL

0196

NUCLEAR ENGINEERING

0241

NUMERICAL ANALYSIS

0590

NURSING

0774 0783 0787 0791
0794

NURSING EDUCATION

0060

NUTS

0366

OAKLEAF SCHOOL

0808 0809

OBJECTIVES

0084 0141 0151 0232
0243 0500 0599 0604

OBJECTIVES--COURSE

0782

OBJECTIVES--EDUCATIONAL

0273 0808 0809

OBJECTIVES--INSTRUCTIONAL

0807 0810

OBJECTIVES--LEARNING

0220

OBSTACLES

0024 0026 0083 0099
0102 0116 0193 0235
0240 0315 0338 0346
0347 0368 0383 0478
0500 0512 0516 0549
0594 0610 0629 0649
0650 0676 0677 0679
0692 0706 0733 0738
0744 0751 0764 0802
0815 0824 0830 0832

OHIO STATE UNIVERSITY

0763 0766

ON-LINE

0237

OPERATING SYSTEM

0010

OPERATIONAL ASPECTS

0469

OPERATIONS RESEARCH APPROACH

0040

OPHTHALMOLOGY

0757

OPTIMIZATION

0018 0019 0020 0021
0023 0024 0040 0100
0627 0638 0669 0796
0802

ORGANIC CHEMISTRY

0238

OUTCOMES

0069 0453

OUTPUT

0103

OVERACHIEVEMENT

0150

OVERLEARNING

0222

OVERVIEW

0016 0025 0077 0089
0104 0105 0183 0229
0287 0288 0297 0316
0345 0359 0373 0408
0409 0427 0428 0454
0455 0456 0457 0499
0529 0549 0565 0575
0576 0584 0608 0626
0650 0652 0655 0689
0700 0724 0727 0748
0751 0754 0764 0784
0789 0790 0801 0802

PACE

0610

PACING

0472

PAIRED ASSOCIATE LEARNING

0770

PAIRED LEARNING

0495 0537 0723

PALO ALTO

0466

PARENTS

0731 0733

PARIS UNIVERSITY

0815

PATHOLOGY

0757

PAVLEW

0770

PDP-8/S

0753

PDP-9

0215

PEDAGOGY

0143

PEDIATRICS

0147

PENN STATE

0288 0299

PERFORMANCE

0033 0062 0064 0187
0209 0362 0435 0529
0591 0664

PERIODONTICS

0334

PERSONALITY

0154 0155 0157 0447
0509 0510 0521 0525
0529 0668

PERSONNEL

0107 0137 0151 0163
0196 0204 0229 0255
0269 0308 0358 0441
0442 0512 0514 0515
0516 0518 0521 0524
0529 0531 0582 0595
0606 0618 0643 0731
0733 0777 0812 0815
0827

PHILADELPHIA

0279 0280 0378

PHYSICAL SCIENCE

0444

PHYSICS

0070 0071 0072 0076
0093 0117 0132 0139
0154 0155 0157 0230
0252 0253 0254 0255
0300 0303 0329 0359
0432 0444 0470 0488
0499 0512 0516 0521
0595 0611 0622 0631
0646 0724 0748 0755
0791 0794 0812 0814
0815 0821 0822 0832
0833

PHYSIOLOGY--EYE

0195

PIANO

0208 0434

PIL

0501

PILOT

0613 0614 0615 0666

PILOT 1.5

0614

PITTSBURGH

0378

PL/1

0501

PLACEMENT

0009

PLAN

0101 0335 0546

PLANIT

0195 0267 0274 0403
0404 0405 0406 0425
0602 0616 0632

PLASMA DISPLAY PANEL

0048 0051 0057 0740
0756 0774 0787

PLATO

0016 0028 0053 0060
0083 0088 0103 0153
0175 0177 0178 0181
0219 0297 0302 0314
0478 0640 0689 0740
0755 0756 0770 0771
0774 0775 0777 0782
0783 0784 0787 0788
0789 0790 079 0792
0793 0794

PLATO II

0030

PLOTTING

0128 0659 0785

POETRY

0387

POLITICAL SCIENCE

0755 0783 0794

POLITICS

0190

PRACTICE

0416 0417 0520 0709
0758

PRE-SCHOOL

0067 0191

PRESENTATION

0187 0448

PRESENTATION MODE

0054 0360 0361 0430
0713

PRINCIPLE OF LEAST ACTION

0254

PRISONERS AS STUDENTS

0267

PROBABILITY

0168

PROBLEM GENERATION

0110 0200 0216 0703
0704 0818

PROBLEM SOLVING

0029 0052 0073 0093
0094 0104 0130 0160
0162 0167 0185 0188
0226 0237 0238 0306
0329 0343 0359 0363
0460 0496 0551 0556
0574 0580 0609 0683
0705 0712 0753 0775
0785 0799 0800

PROCTOR

0138 0198 0356 0568
0662 0722

PROGRAM

0117 0146 0770 0777
0781 0783 0818 0821
0824 0830 0833

PROGRAM-CONTROLLED INSTRUCTION

0061 0216

PROGRAMMED INSTRUCTION

0001 0024 0031 0033
0056 0067 0085 0098
0110 0139 0150 0166
0168 0172 0191 0193
0216 0219 0220 0221
0223 0225 0240 0242
0270 0289 0309 0314
0315 0340 0341 0344
0345 0351 0360 0361
0364 0384 0435 0440
0445 0446 0452 0465
0472 0497 0500 0503
0529 0537 0540 0544
0593 0601 0603 0630
0635 0647 0655 0656
0657 0658 0696 0797
0811

PROGRAMMER

0226 0568 0595 0654
0655 0656 0657 0658
0665 0694

PROGRAMMER MODE

0249

PROGRAMMER--INSTRUCTIONAL

0100

PROGRAMMING

0040	0064	0094	0098
0124	0141	0162	0168
0177	0187	0194	0216
0221	0231	0236	0249
0284	0324	0327	0333
0403	0405	0415	0463
0477	0493	0535	0567
0571	0579	0596	0613
0615	0622	0630	0654
0665	0666	0669	0689
0714	0723	0742	0746
0747	0749	0753	0759
0817	0825	0831	

PROGRAMMING--COURSE

0088 0771 0783

PROJECT

0183	0224	0229	0243
0269	0316	0331	0334
0373	0499	0549	0554
0573	0595	0599	0658
0705	0754	0755	0764
0765	0766	0767	0801

PROJECTS

0089 0186 0631

PROMPTING

0222 0487

PRONUNCIATION

0082

PSYCHOLOGY

0056 0144 0321 0381
0723 0780

PUBLIC SCHOOL

0186

QUADRATIC EQUATIONS

0200

QUANTUM MECHANICS

0349 0498

QUESTION ANSWERER

0820

RADAR OPERATORS

0161

RAILROAD

0267

RAND TABLET

0254 0296 0602

RATIONALE

0316 0407 0609

RCA

0125 0332 0479 0554

RCA INSTRUCTIONAL 70 SYSTEM

0119 0146 0330 0331
0376

RCA INSTRUCTIONAL 71 SYSTEM

0119 0330 0373

READABILITY

0187 0392 0459 0461

READING

0018 0019 0021 0022
0024 0026 0063 0065
0075 0077 0079 0081
0084 0100 0116 0125
0149 0150 0164 0169
0170 0191 0194 0210
0232 0246 0268 0289
0296 0319 0331 0332
0333 0336 0240 0373
0394 0396 0526 0544
0633 0698 0705 0714
0715 0722 0733 0748
0776

REAL-TIME

0692

REASONING

0533

RECTANGULAR-WELL POTENTIAL

0349

REFLECT

0107 0595

REGRESSION ANALYSIS TECHNIQUE

0362

REINFORCEMENT

0067 0321 0338 0487
0497 0669 0679 0743
0777

REINFORCEMENT THEORY

0500

RELATIVITY

0253 0812 0822

RELIABILITY

0125 0706

REMEDIAL MATERIAL

0319 0568

REMEDIATION

0362 0381

REPETITION

0150

REPLAB

0175 0177

RESEARCH

0030	0089	0107	0122
0152	0178	0305	0315
0338	0463	0521	0531
0650	0660	0789	0790
0794			

RESEARCH & DEVELOPMENT

0089	0137	0140	0257
0313	0335	0389	0407
0513	0639	0649	0652
0724	0734	0813	

RESEARCH TOOL

0181	0638	0777
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RESPONSE

0055	0063	0085	0086
0098	0168	0173	0187
0212	0220	0222	0223
0309	0320	0321	0338
0362	0429	0446	0463
0465	0487	0519	0544
0573	0601	0603	0604
0648	0649	0671	0679
0707	0713	0774	0777
0779	0788	0797	0818

RESPONSE-DATA PROCESSING

0777

RETENTION

0221	0222	0270	0353
0360	0361	0416	0446
0448	0458	0510	0525
0603	0618	0709	0726
0728	0730	0835	

REVISION

0779

ROMAN NUMERALS

0644

RURAL

0007	0526
------	------

RUSSIAN

0082	0194	0267	0681
0684	0705	0722	0755
0794			

SANTA BARBARA HIGH SCHOOL

0300	0303	0304
------	------	------

SCHOOL BOARD GAME

0725

SCHOOL PSYCHOLOGY

0509	0780
------	------

SCIENCE

0061	0065	0085	0092
0139	0163	0177	0204
0213	0214	0221	0308
0356	0367	0373	0397
0429	0430	0458	0466
0472	0499	0508	0517
0542	0585	0595	0646
0693	0726	0728	0729
0730	0743	0786	0835

SDC

0173 0195 0380 0632

SELF-INSTRUCTION

0094 0103 0150 0414
0544 0660

SEQUENCE

0001 0061 0085 0213
0220 0221 0222 0309
0321 0341 0447 0498
0574 0679 0713

SEX

0062 0360 0361 0448
0731 0733 0748 0777

SIERRA LEONE DEVELOPMENT PROJECT

0087

SIMULATION

0002 0004 0006 0024
0028 0036 0058 0060
0071 0074 0077 0091
0103 0104 0105 0106
0107 0111 0124 0128
0130 0132 0161 0175
0181 0182 0193 0217
0229 0241 0250 0267
0329 0337 0339 0350
0374 0381 0388 0398
0400 0444 0488 0507
0512 0516 0518 0529
0534 0536 0574 0576
0580 0583 0585 0611
0631 0646 0659 0667
0689 0690 0757 0767
0768 0769 0783 0787
0798 0800 0801 0802

SIRA

0777

SLIDE PROJECTOR

0834

SLIDES

0821

SOCIAL NEED

0364

SOCIAL SCIENCE

0006 0217

SOCIAL SCIENCES

0293 0397 0499 0506
0690

SOCIAL STUDIES

0373 0610

SOCIAL WORK

0144 0381

SOCIOECONOMIC GAMES

0725

SOCIOECONOMIC LEVEL

0233 0777

SOCIOLOGY

0144 0381 0620

SOCRATES

0219 0411 0668 0757

SOCRATIC SYSTEM

0156 0298 0412 0687

SOFTWARE

0016 0024 0041 0048
0116 0125 0137 0161
0183 0191 0193 0195
0212 0224 0258 0274
0294 0330 0346 0347
0355 0357 0368 0383
0396 0433 0434 0450
0454 0457 0469 0493
0506 0507 0538 0576
0582 0584 0626 0637
0655 0661 0693 0694
0699 0722 0734 0751
0759 0777 0784 0791
0802 0813 0815 0818

SOLO

0369

SPANISH

0499 0755 0794

SPATIAL ASSOCIATION

0571

SPEECH

0202

SPELLING

0075 0125 0172 0288
0373 0416 0417 0705
0709 0722 0806

SRI

0675

STANDARDIZATION

0680 0682

STANFORD UNIVERSITY

0013 0018 0019 0020
0021 0022 0024 0026
0077 0082 0100 0194
0210 0289 0297 0336
0396 0587 0676 0681
0705 0706 0708 0714
0715 0722 0748 0795
0802

STATISTICS

0080 0167 0185 0473
0474 0475 0667 0702
0758

STENOTYPY

0702

STEP SIZE

0086 0321 0320 0644

STIMULATION

0091

STIMULUS

0125 0220 0222 0679
0706

STONY BROOK, N. Y.

0764

STORAGE

0010 0450 0707 0777

STRAND

0013 0396 0600 0722
0750

STRATEGY--INSTRUCTIONAL

0014 0016 0022 0035
0060 0064 0083 0088
0092 0096 0110 0115
0141 0150 0159 0177
0181 0182 0187 0188
0211 0212 0213 0214
0242 0246 0247 0276
0301 0302 0308 0349
0377 0390 0393 0396
0447 0449 0487 0493
0511 0512 0513 0516
0520 0539 0543 0557
0574 0595 0608 0635
0647 0662 0668 0684
0734 0757 0761 0771
0783 0784 0786 0789
0790 0792 0793 0796
0802 0815

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0229

STRATEGY--LEARNING

0513 0628

STRESS

0139

STRINGCOMP

0501

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0028 0066 0083 0098
0100 0103 0109 0111
0118 0119 0123 0138
0177 0255 0289 0308
0317 0319 0352 0356
0438 0466 0519 0543
0547 0568 0573 0630
0671 0677 0679 0693
0756 0777

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0087 0690

SWAHILI

0713

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0655 0813

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0669 0738 0740 0756
0774 0787 0796

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0313 0315 0380

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0189 0374 0514 0707

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0106 0122 0171 0201
0218 0226 0243 0503
0512 0516 0521 0529
0586 0594 0628 0638
0639 0743

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0116 0172 0191 0340
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0084 0092 0095 0096
0101 0102 0106 0110
0119 0121 0122 0123
0125 0143 0145 0149
0163 0190 0191 0193
0228 0240 0251 0269
0273 0274 0308 0319
0331 0332 0351 0373
0379 0439 0454 0457
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0225	0260	0276	0373
0383	0391	0504	0505
0527	0528	0547	0548
0707	0775	0827	

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0001	0098	0108	0113
0114	0150	0166	0168
0173	0181	0192	0219
0220	0320	0321	0411
0429	0644	0660	0702

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0746	0750		

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0197	0198	0282	0371
0395	0426	0543	0602
0605	0606	0674	0679
0689	0702	0714	0731
0732	0733	0737	0740
0750	0751	0753	0756
0771	0774	0784	0787
0789	0790	0792	0793
0802	0818		

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0069	0074	0098	0107
0114	0216	0337	0410
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0459	0461	0462	0491
0492	0572	0674	0827

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0123	0125	0128	0165

TIME-SHARING (CONTINUED)

0237	0265	0388	0396
0402	0406	0418	0420
0433	0476	0499	0506
0545	0622	0646	0649
0656	0657	0692	0737
0751	0753	0772	0798

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0151	0161	0163	0177
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0524	0525	0595	0656
0657	0665	0731	0732
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0043	0044	0055	0071
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0123	0125	0130	0135
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0182	0194	0204	0215
0236	0253	0276	0315
0323	0327	0337	0359
0374	0396	0400	0453
0471	0496	0507	0537
0548	0551	0574	0575
0576	0646	0662	0668
0676	0678	0679	0680
0692	0684	0702	0703
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0498 0499 0814

LUMSDAINE, A. A.

0166 0500

LYMAN, ELISABETH R.

0175 0177 0755 0783
0789 0790 0794

LYON, G.

0501

MAAS, J. A.

0126

MACAULEY, T.

0134

MACDONALD, R. A.

0701

MACDOUGALL, MARY ANN

0187 0392

MAGER, R. F.

0141

MAJER, K.

0154 0157

MAJER, K. S.

0155 0529

MALKIN, S.

0731 0733

MALONEY, J. V., JR.

0419

MARKS, S.

0589

MARKS, SEMA

0587 0588

MARTIN, J. H.

0174

MATHEWS, LINDA

0179

MAY, M. A.

0166

MCCLINTOCK, S.

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MCCONNELL, J. S.

0135

MCCRACKEN, D. D.

0136

MCKENNEY, J. W.

0137

MCKINNEY, G.

0798

MCLAREN, P.

0140

MCMANUS, J. F.

0050

MCMURCHIE, T.

0490

MCNEIL, J. D.

0429 0430

MCSWEENEY, J.

0340

MEIER, DOROTHY L.

0217

MELARANGO, R.

0150

MELARAGNO, R. J.

0145

MELARANGO, R. J.

0318

MELARAGNO, R. J.

0651 0653

MEREDITH, J. C.

0142

MERRILL, J. R.

0230

MILLER, J. R. C.

0241

MILLER, R. T.

0098

MIN, L. Y.

0040

MITCHELL, AUDREY

0092

MITZEL, H. E.

0258 0259 0505 0826
0827 0828 0829

MOLNAR, A. R.

0203

MONROE, B.

0036

MONTAGUE, W. E.

0770

MOON, R. D.

0041

MOREAU, NANCY ANN

0461

MORGAN, JANE

0262

MORGAN, R. M.

0263 0460

MORNINGSTAR, MONA

0684 0719 0721

MORRISON, H. W.

0014 0264

MUELLER, A.

0128

MULLER, M.

0265

NAESS, L.

0215

NELSON, T. H.

0563

NEWSOM, C. V.

0565

NEWTON, R. H.

0567 0568

NICHOLS, D. G.

0086

NICHOLSON, SADIE

0725

NICHOLSON, T. G.

0571

NORFLEET, M.

0209

NUNLEY, R. E.

0570

NUNNERY, A. W.

0147

O'DEA, E. P.

0732

OETTINGER, A.

0587 0588 0589

OETTINGER, A. G.

0251 0585 0586

OLIVER, P.

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OLIVIER, W. B.

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OLIVIER, W. P.

0215 0216

O'NEAL, F.

0163

O'NEAL, L. R.

0058

O'NEIL, H. F., JR.

0062 0063 0064 0139
0229 0482 0530 0591
0592

O'TOOLE, J. F., JR.

0593 0594

OWEN, W. B.

0167

PACKER, R. E.

0607

PARKER, H. J.

0147

PASICH, T.

0818

PASICH, T. W.

0704

PASK, G.

0608

PAULSON, J. A.

0023

PAYNE, D.

0609

PEMBROKE, B. R.

0610

PENNY, RUTH

0228

PEPLINSKI, CAROL

0200

PESKOWITZ, NANCY B.

0806

PFALTZGRAFF, D. J.

0611

PIKE, A. H.

0612

POLLACK, S. V.

0667

PRESSEY, S. L.

0617

PRINCE, J. D.

0618

PYATTE, J. A.

0392

QUACKENBUSH, J.

0113

RAHMLow, H. F.

0761

RANDALL, R.

0326

RATHE, G. H., JR.

0327 0328

RATKOWSKY, D. A.

0799

RAUCHER, S. M.

0329

RAYNER, GAIL T.

0006

REDDY, J. M.

0014

REDFIELD, D. B.

0065

REDFIELD, D. D.

0693

REIL, F. C.

0333

REMMENGA, E. E.

0167

RESTA, P. E.

0049

REYNOLDS, D.

0337 0338

REYNOLDS, J. H.

0221

RHEA, J.

0339

RICHARDSON, E.

0340

RIDGEWAY, J.

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RIEDEL, C. A.

0225 0505

RIGNEY, J. W.

0341

RIPS, M.

0082

RISING, G. R.

0342

RIVERS, L.

0186 0362

RIVERS, L. C.

0229

ROBERTSON, T. F.

0801

ROBINSON, D. M.

0343

ROBSON, J. W.

0814

RODGERS, T. S.

0182

ROE, A.

0168 0344 0345

ROGERS, J. L.

0346 0347

ROGERS, MIRRIAM

0818

ROID, G. H.

0056

ROSENBAUM, J.

0195

ROSENBLATT, R. D.

0212

ROTHENBERG, S.

0811

RUDDICK, J. J.

0349

RUDERMAN, R.

0609

RUMAGE, K. W.

0558

RUSHTON, G.

0350

RYANS, D. G.

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SABOL, J. S.

0570

SADEH, W. Z.

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SANDSTROM, A.

0084

SARGENT, R. G.

0797

SASSENATH, J. M.

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SAX, SUZANNE E.

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SCANLAND, F. W.

0007

SCHRAG, P.

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SCHURDAK, J.

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SCHURE, A.

0627 0628

SCHUTZ, R. E.

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SCHWARCZ, R. M.

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0820

SCHWARTZ, H. A.

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SCHWARZ, G.

0255 0444 0631

SEAGLE, J. P.

0110

SEARLE, C.

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SEARS, PAULINE S.

0164 0633

SEDELOW, SALLY Y.

0634

SEE, SALLY

0212

SEIDEL, R. J.

0205 0212 0242 0441
0442 0443 0635 0636
0637 0638 0639 0640

SEIDER, W. D.

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SENDERS, J.

0642

SHAPLIN, J. T.

0643

SHAY, C. B.

0644

SHELDON, J. W.

0645

SHERMAN, BEVERLY

0646

SHERMAN, N.

0833

SHERWOOD, B. A.

0791

SHIRER, D. L.

0646

SILBERMAN, C. E.

0193

SILBERMAN, H. F.

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0649 0650 0651 0652
0653 0741

SILVERN, GLORIA M.

0654 0655

SILVERN, L. C.

0654 0655 0656 0657
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SIMMONS, R. F.

0819 0820

SKAPERDAS, D.

0756 0774

SKINNER, B. F.

0660

SLACK, C. W.

0196

SLAUGHTER, R. E.

0661

SLIMICK, J.

0493

SLOANT & C SC

0244

SLOTTOW, H. G.

0057

SMALL, HAZEL C.

0008 0009

SMALLWOOD, R. D.

0796

SMITH, AUTHELLA

0662

SMITH, H.

0663

SNYDER, W.

0693

SPEEDIE, S. M.

0089

SPIELBERGER, C. D.

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SPRING, B. P.

0192

SPRINGER, C. H.

0122

STANLEY, E. J.

0226

STANNARD, C.

0132

STARKS, D. D.

0665

STARKWEATHER, J. A.

0663 0759

STAUFFER, C. M.

0022

STERLING, T. D.

0667

STEVENS, J. D.

0800

STOLUROW, L. M.

0001 0222 0668 0669
0670 0757

STRANDBERG, J.

0049 0059

STRUM, R. D.

0671

STUCKLESS, E. R.

0672

SUCHMAN, J. R.

0177

SUPPES, P.

0120 0123 0194 0394
0676 0677 0678 0679
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0684 0705 0706 0707
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SUTHERLAND, I. E.

0685

SUYDAM, MARILYN N.

0505

SWALLOW, R. J.

0640

SWARTZ, G. B.

0185

SWETS, J. A.

0586 0687

SZABO, M.

0408 0409

TABBUTT, F. D.

0689

TANSEY, P. J.

0690

TAYLOR, E. F.

0253 0821 0822 0824
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TEAGER, H. M.

0692

TEATES, T.

0693

TEATES, T. G.

0065

TEICHROEW, D.

0250

TENCZAR, P.

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THOMAS, M. E.

0798

TING, T. C.

0184

TIRA, D. E.

0763

TOBIAS, S.

0696 0697

TONDOW, M.

0466

TREZISE, R. L.

0657

TRUEBLOOD, C. R.

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TUCKER, SHIRLEY

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TURNER, ANN C.

0169

UMANS, SHELLEY

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UNG, M. T.

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UNWIN, D.

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UTTAL, W. R.

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VANDEPORTAELE, D. D.

0620

VAN DER AA, H. J.

0621

VIERLING, A. F.

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VIERLING, J. S.

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VINSONHALER, J. F.

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VONHOF, P.

0624

VONHOF, P. W.

0623

WADSWORTH, R. B.

0158

WALDEN, W. E.

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WARD, J. R.

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WASTLER, B. JEAN

0595

WAY, FLORINE L.

0246

WEBBER, C. E.

0770

WEBER, J. C.

0236

WEINER, M.

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WEINSTEIN, I. J.

0796

WEISMAN, R. G.

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WEISSMAN, K.

0747

WEIZENBAUM, J.

0596 0597 0823 0831

WENESER, BETTY

0598

WILLIAMS, E. M.

0743

WILLIAMS, JOANNA P.

0601

WILLIAMS, T. G.

0602

WILLIAMS, W. H.

0201

WILSON, H. A.
0024 0025 0026

WISLER, D.
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WITTROCK, M. C.
0603

WIDTKE, K. H.
0604

WOLF, R. M.
0004

WOOD, R. C.
0556

WRIGHT, BETTY J.
0531 0532

WYE, R. E.
0606

YANCEY, J. M.
0723

YEATES, M. H.
0571

YETT, F. A.
0094

YOUNGMAN, C. E.
0570

ZELLWEGER, A.
0254

ZINN, K. L.
0162 0188 0501 0572
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0581 0582 0583 0584

ZINN, K.
0817

ZOSEL, MARY
0560